POS 201296 Mauritron Electronics

1091

Goodmans

For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
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Service Manual

COLOUR TELEVISION

Mod. 2575
Mod. 2875

.3375

INTRODUCTION

The television is built around a high-volume integration integrated circuit TDA 8361/2, a new processor for PAL and NTSC system television. This TDA 8361/2 processor combines all the small signal functions required of a colour television receiver, including operation of an external video and audio of a S-VHS (separate Luminance and Chrominance). Processor TDA 8361/2 is a video processor containing functions handling HF, sound, horizontal and vertical synchronisation, PAL/NTSC decodind, and RGB control. It was implemented using BIMOS technology, which combines MOS and bipolar methods. The bipolar technology is used for high-frequency signal processing (ex. video signals) and the MOS technology is used in those parts handling digital signals.
In addition it uses an integrated delay line TDA 4661, an audio output stage mono, stereo 6+6W, stereo 12+12W, a vertical output stage TDA3654B, and a horizontal output stage with BU508D. The power-supply unit is of the flyback type and controlled by the TDA 4601 integrated circuit.

Principal functions common to both processor version TDA 8361/2 are:
-symmetric IF amplifier directly coupled to surface-wave filter
-FM sound multistandard demodulator, not needing regulation
-chroma trap and integrated band-pass filters
-integrated luminance delay line
-PAL/NTSC automatic decoder
-self-regulating horizontal oscillator
-low dissipation (about 700 mW)
-possibility of selecting an external A/V source

Functions specific to TDA 8362 :
-multistandard IF circuit for positive and negative modulation
-simple interface with TDA 8395 (SECAM decoder) for PAL and SECAM multistandard applications.

ALIGNMENT

38.9 Mhz and AFC (TP2)

Connect a 38.9 Mhz intermediate-frequency generator to the tuner's IF output pin 17 and adjust the core L4 so as to obtain 3,5V at pin 44 of TDA 8361/2.

POWER SUPPLY (TP3)

Measure the direct voltage at the terminals of diode DJ1 or D38 and potentiometer R162 so as to obtain a voltage of 142/152 V.

AGC (TP1)

Aplly a 60dBuV (+/- 1dB) RF signal, band III, channel 10-to-12, and adjust potentiometer R111 so as to obtain a voltage of about 8V at tuner pin no. 5. (This voltage depends on the tuner used; so check on the latter's characteristics.)

WHITE SETTING

-Tune to a channel with colour test-pattern signal
-Position level potentiometers R18, R15, R14 and gain potentiometers R3 and R9 on the CRT socket, locating centrally
-Adjust the TV receiver to maximun brightness, minumun colour and contrast
-Switch the TV to AV using the corresponding button on the remote control
-Adjust potentiometer G2 (EHT transformer) to obtain a barely visible screen. The screen usually appears with a predominant colour hue.
-Adjust the level potentiometers of the order two cathodes that are different from the predominanting colour in order to obtain the white screen. If, for example, the predominant colour of the screen is red, the potentiometers of the blue cathode R14 and the green cathode R15 are adjusted.
-Return to TV mode with the appropriate remote-control button
-Check that the uhe of the colours of the colour test-pattern picture are correct. If necessary adjust the potentiometrs R3-R9.

VERTICAL CENTERING

Cut/solder the R215 and/or R216 in order to obtai the right vertical geometric centering between CRT and signal. (for example, use a test-pattern signal)

HORIZONTAL CENTERING AND EAST-WEST CORRECTION

-Adjust R186 (HC) for proper horizontal centering
-Adjust R205 (HA) for proper horizontal width
-Adjust R200 (OW) for proper pin-cushion
-Adjust R203 (TZ) for proper trapezium

STEREO NICAM DECODER

-Tune to a colour bar signal applied to the antenna (E.S. PAL I-NICAM)
-Remove the sound carrier
-Adjust L3 for the minimun video signal on pin 17 of IC5
-Insert the digital sound carrier
-Adjust L7 for maximun sinusoidal signal on pin 9 of IC5
-Insert analogue sound carrier
-Adjust L7 for maximun sinusoidal signal on pin 9 of IC5
-Ajust R79 to obtain the same signal amplitude between NICAM and MONO FM signals.

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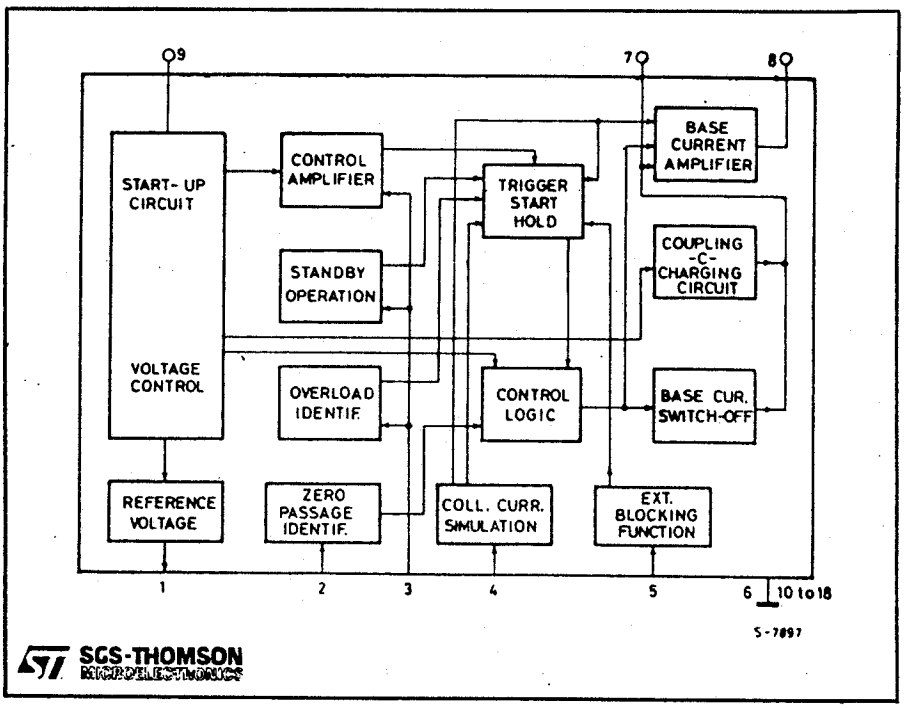
POWER SUPPLY - TDA4601



Functional description.

Integrated circuit TDA4601 is a swith-mode power controller that is particularly suited to TV use. I,t is able to directly drive a bipolar current with a base current of 1.2A. . It is a controller complete with all functions for normal operation, for transient operation (ex. soft-start), and for malfunction operation (protection against overload and shot-circuits).

PCA84C841/061 pinout description

1	output balance (not active for stereoBG and nicam)
2	volume output (only mono and stereo from scart- not active for stereoBG e nicam)
3	brightness output
4	saturation output
5	contrast output (TRE-not active for stereoBG and nicam)
6	bass output (not active for stereoBG and nicam)
7	CVBS2
8	status
9	spare
10	SVHS
11	CVBS1
12	RGB
13	input/output keyboard
14	input/output keyboard
15	input/output keyboard
16	input/output keyboard
17	input/output keyboard
18	input/output keyboard
19	input/output keyboard
20	strobe output
21	ground
22	OSD red output
23	OSD green output
24	OSD blue output
25	OSD fast blanking
26	horizontal synchro input
27	vertical sinchro input
28	OSD LC oscillator
29	OSD LC oscillator
30	ground
31	xtal 10Mhz oscillator input
32	oscillator output
33	reset
34	identification input
35	IR input
36	n.c.
37	L/L' or dual
38	BG/L or stereo
39	SCL i2cbus
40	SDA i2cbus
41	stand-by
42	power supply

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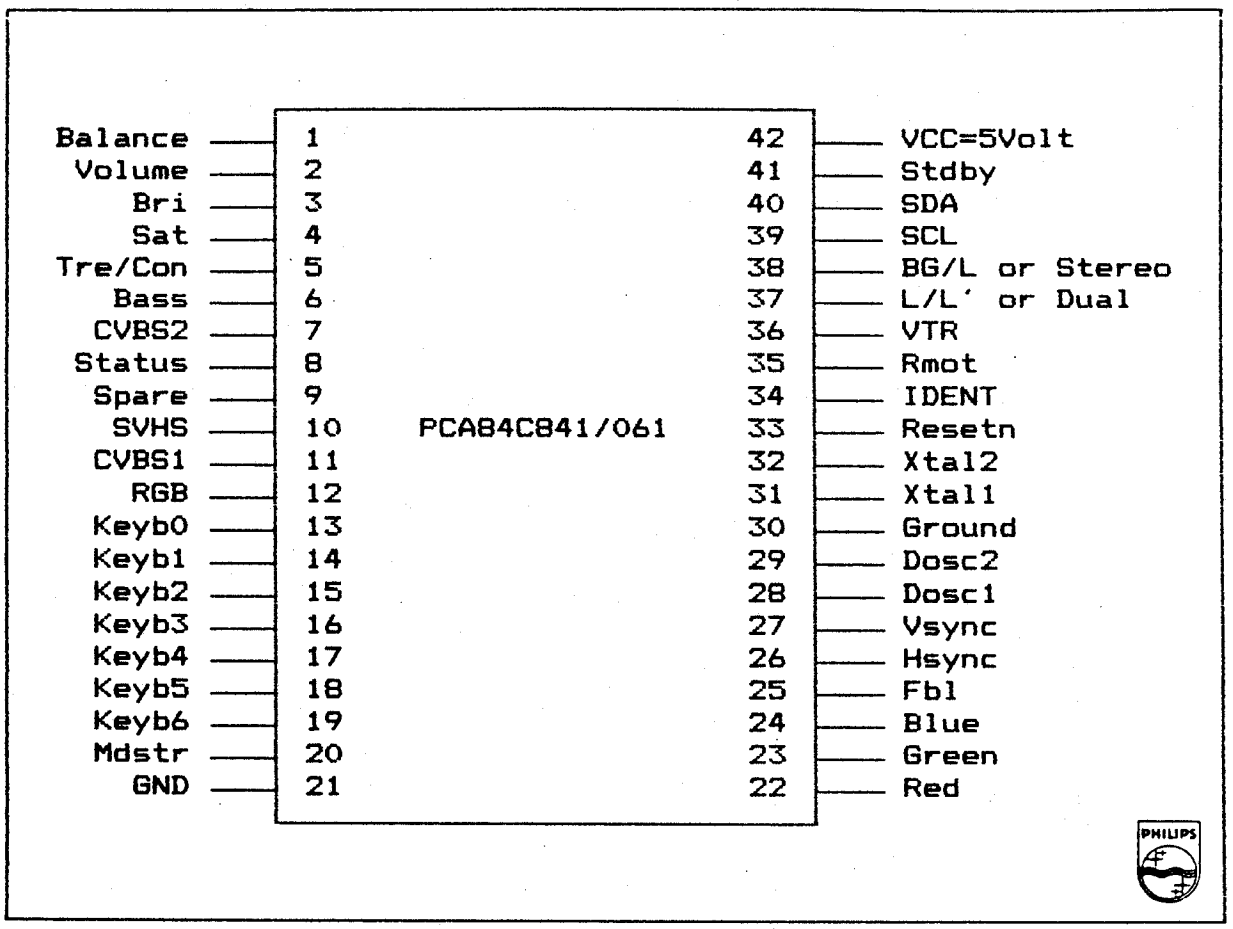
N.B. For stereoBG and nicam TVC, volume, balance, treble and bass controls are handled in digital level in i2c bus.

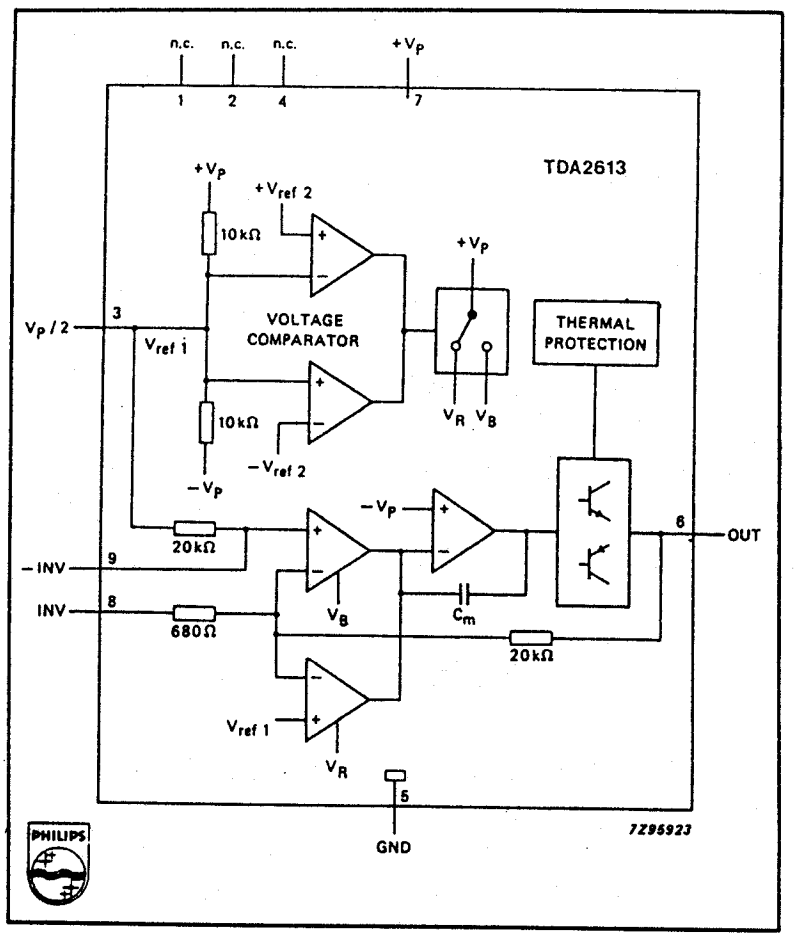
Functional description

CTV322S tuning is a control system for television based on micro-controller PCA84C841/061.
It is a frequency sinthesizer system with OSD (On-screen-display), sound and colour are controlled by 5 digital/analog converters.

TUNING - PCA84C841/061



AUDIO - TDA2613



PINNING TDA2613

1- not connect
2- not connect
3- 1/2 tension
4- not connect
5- ground
6- output
7- power supply
8- inverting input
9- non-inverting input

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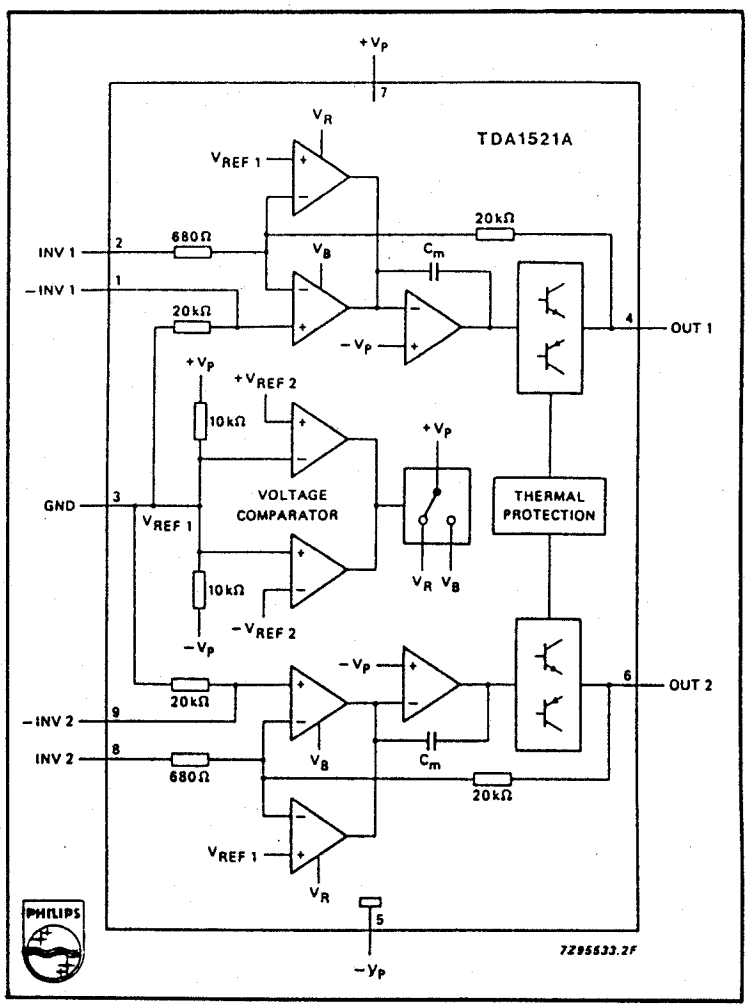
Functional description

TDA2613 is a monophonic output amplifier. It requires no external component.
It drives 16 Ohm speakers. Gain is set internally at 30 dB.

AUDIO 2x6W - TDA 1521A



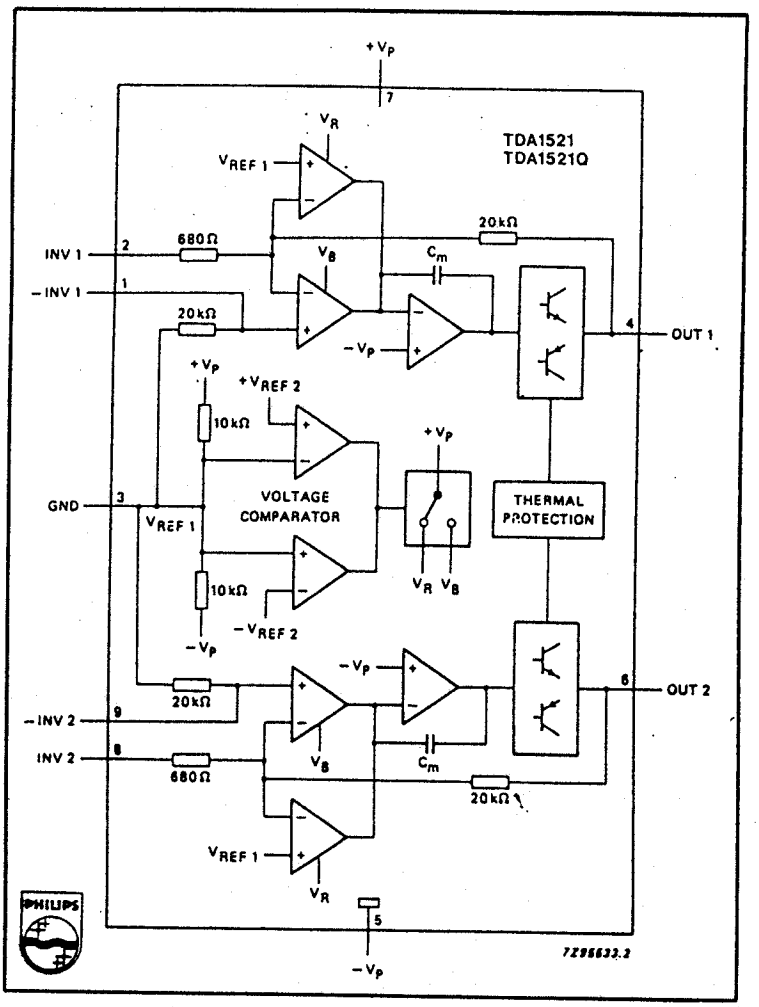
PINNING TDA1521A

1- non-inverting input 1
2- inverting input 1
3- ground or 1/2 power supply
4- output 1
5- ground or negative supply
6- output 2
7- power supply
8- inverting input 2
9- non-inverting input 2

Functional description

TDA1521A is a stereophonic 2x6W audio output amplifier. Gain is set internally at 30 dB.

AUDIO 2x12W - TDA 1521



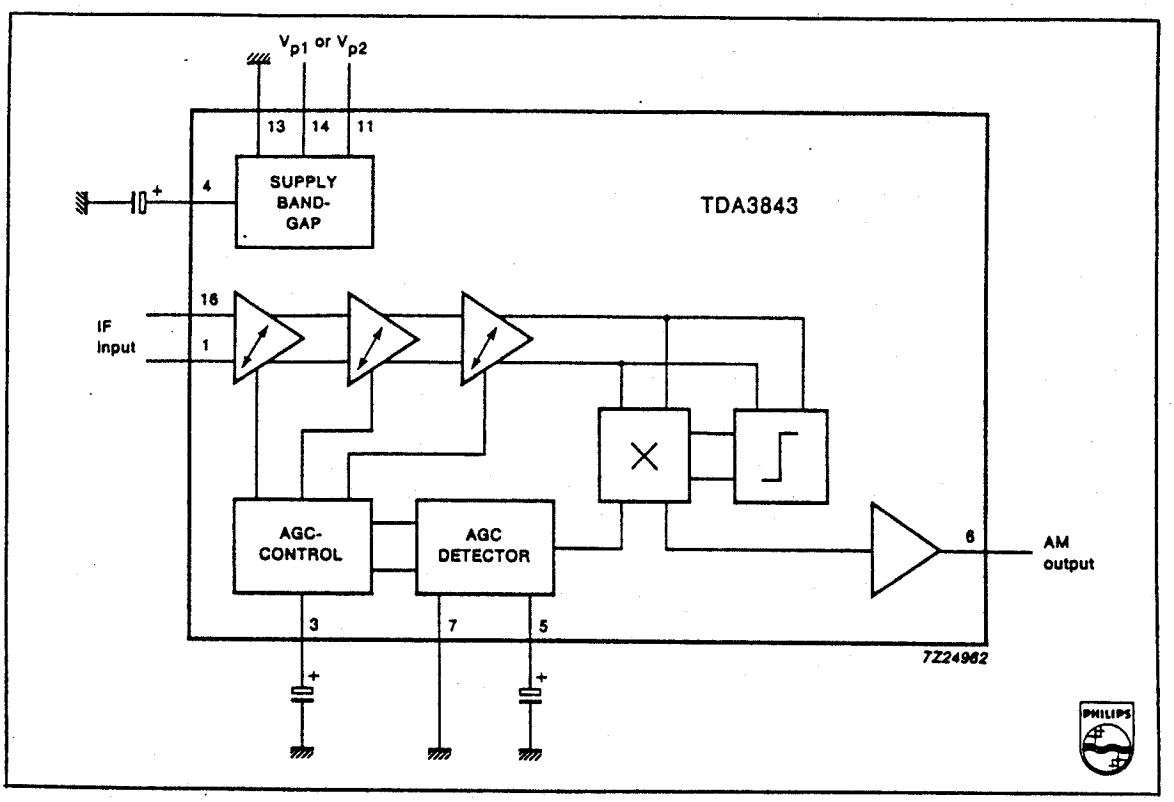
PINNING TDA1521

1- non-inverting input 1
2- inverting input 1
3- ground or 1/2 power supply
4- output 1
5- ground or negative supply
6- output 2
7- power supply
8- inverting input 2
9- non-inverting input 2

Functional description

TDA1521 is a stereophonic 2x12W audio output amplifier. Gain is set internally at 30 dB.

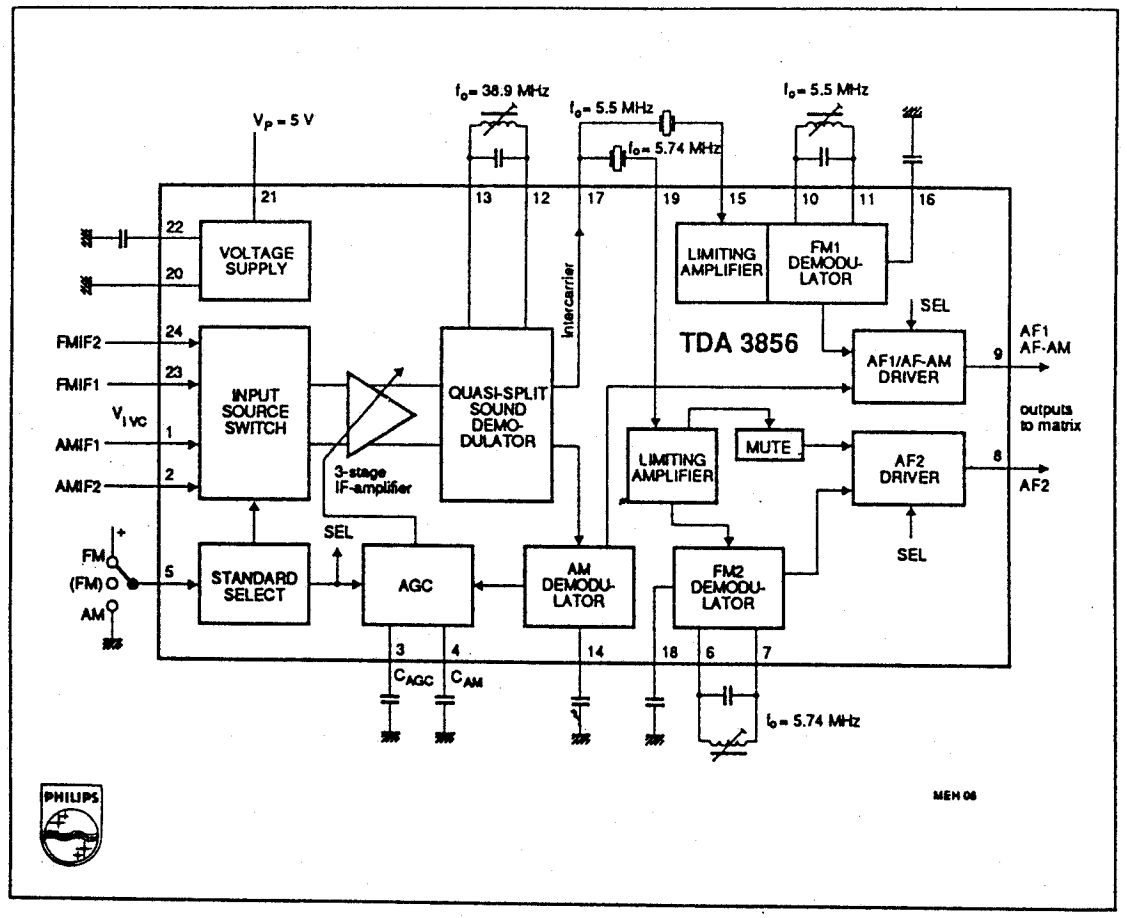
L-L' STANDARD AM AUDIO - TDA3843

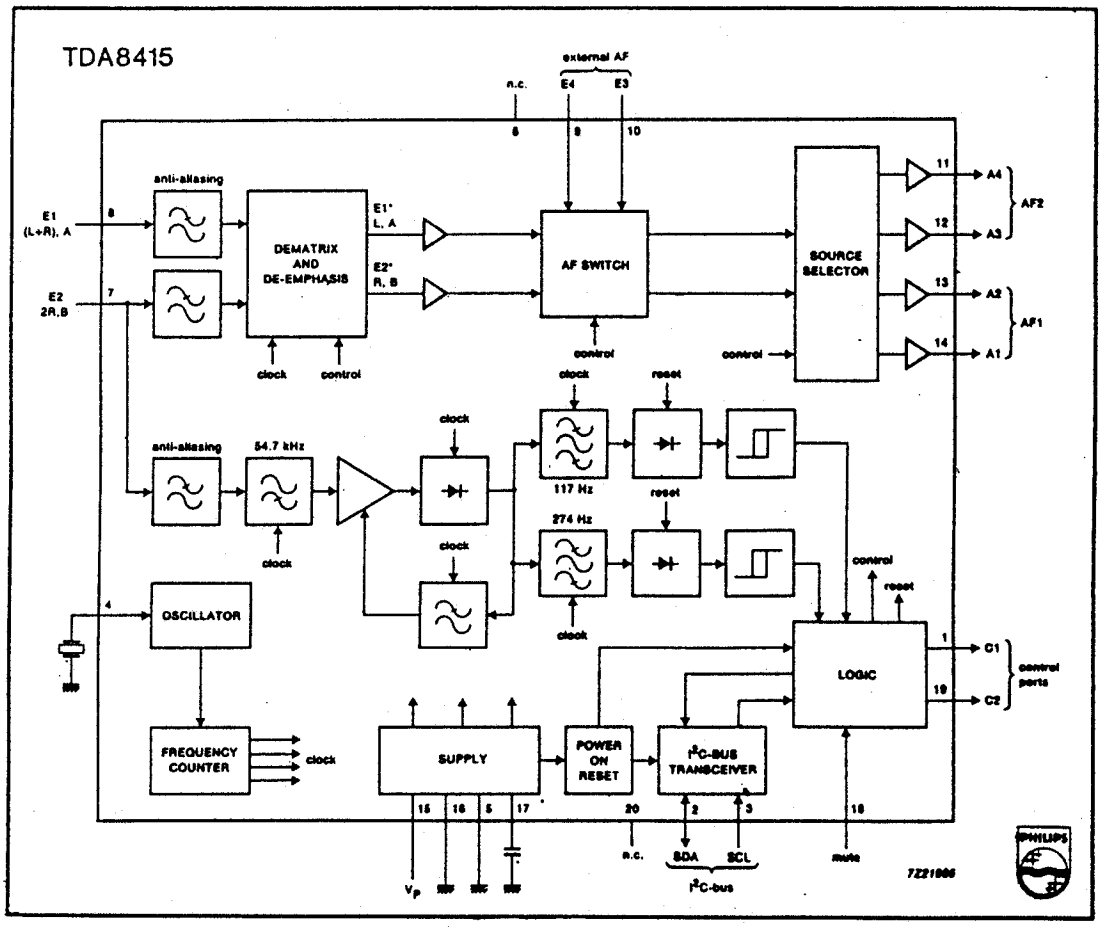


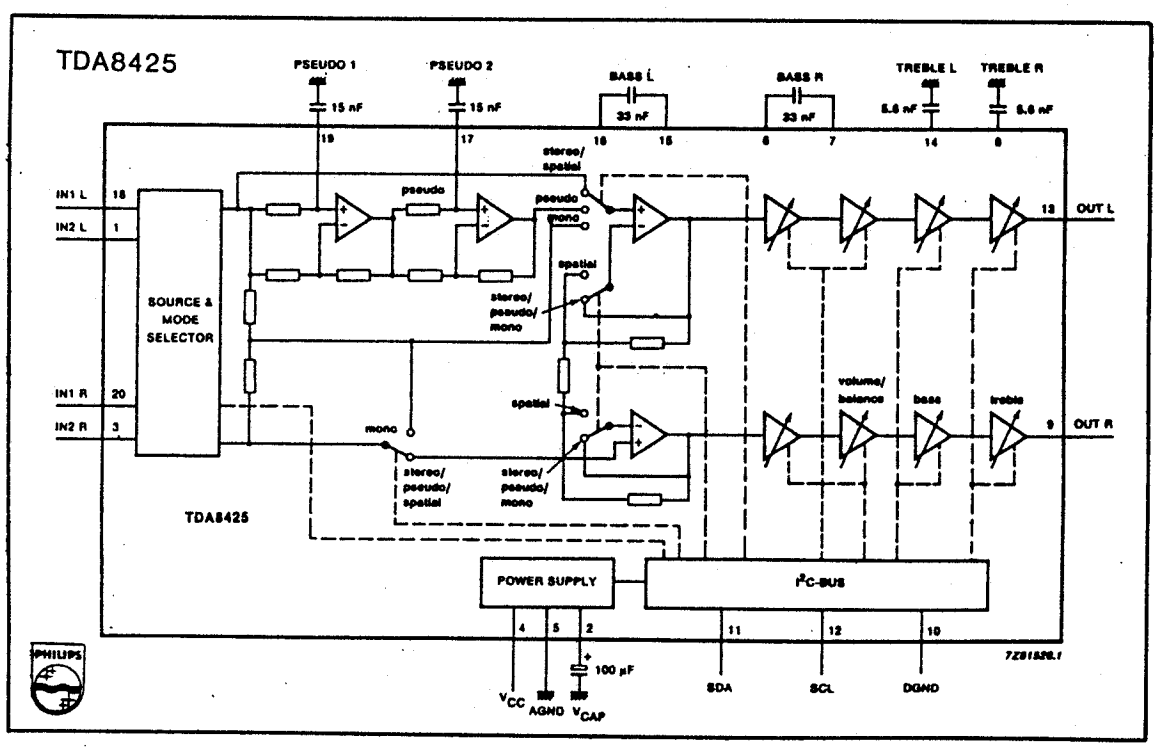
Functional description

TDA3843 handles AM sound demodulation for standards L and L'.

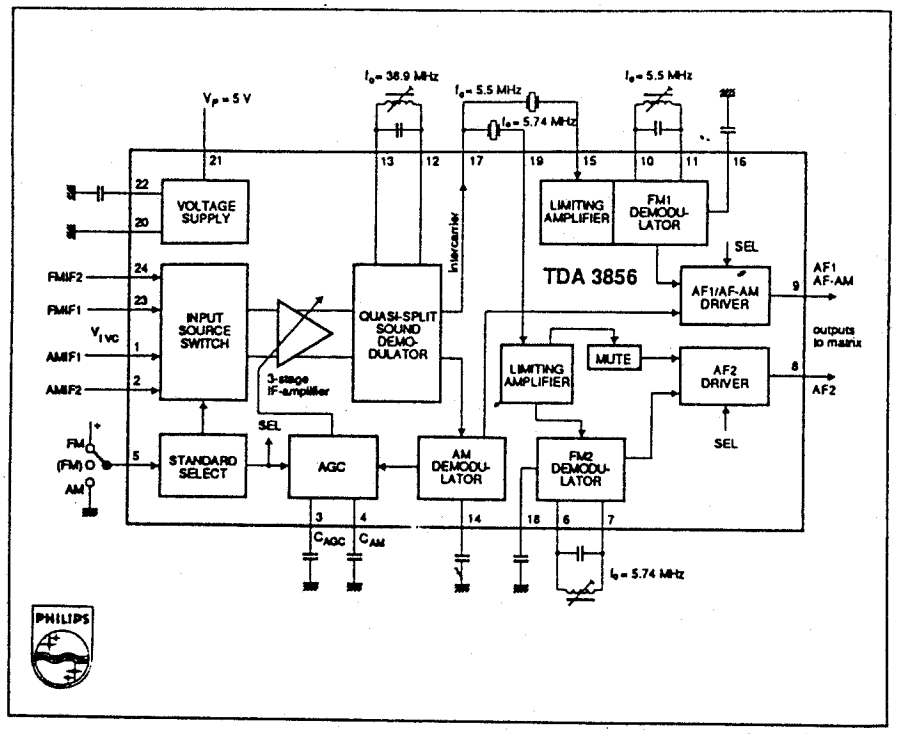
STEREO DECODER




TDA8415
external AF
n.c.
E4
E3
anti-aliasing
E1
(L+R), A
E2
2R,B
DEMATRIX
AND
DE-EMPHASIS
E1*
L, A
E2*
R, B
AF SWITCH
SOURCE
SELECTOR
A4
A3
A2
A1
AF2
AF1
control
clock
reset
54.7 kHz
117 Hz
274 Hz
OSCILLATOR
LOGIC
C1
C2
control
ports
FREQUENCY
COUNTER
SUPPLY
POWER
ON
RESET
I²C-BUS
TRANSCEIVER
SDA
SCL
I²C-bus
mute
n.c.
7Z21866


TDA8425
PSEUDO 1
PSEUDO 2
BASS L
BASS R
TREBLE L
TREBLE R
15 nF
33 nF
5.6 nF
IN1 L
IN2 L
IN1 R
IN2 R
SOURCE &
MODE
SELECTOR
stereo/
spatial
pseudo
mono
volume/
balance
bass
treble
OUT L
OUT R
POWER SUPPLY
I²C-BUS
100 µF
SDA
SCL
DGND
VCC
AGND
VCAP
7Z81526.1

STEREO NICAM DECODER



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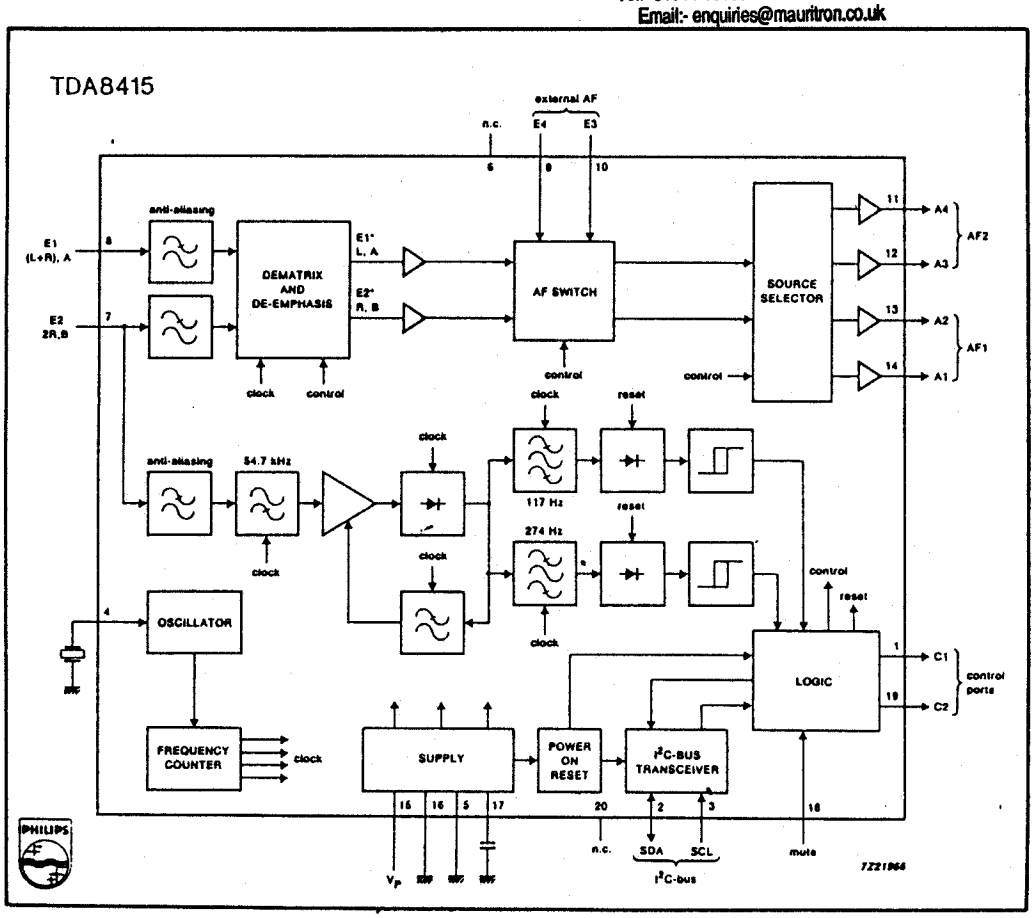
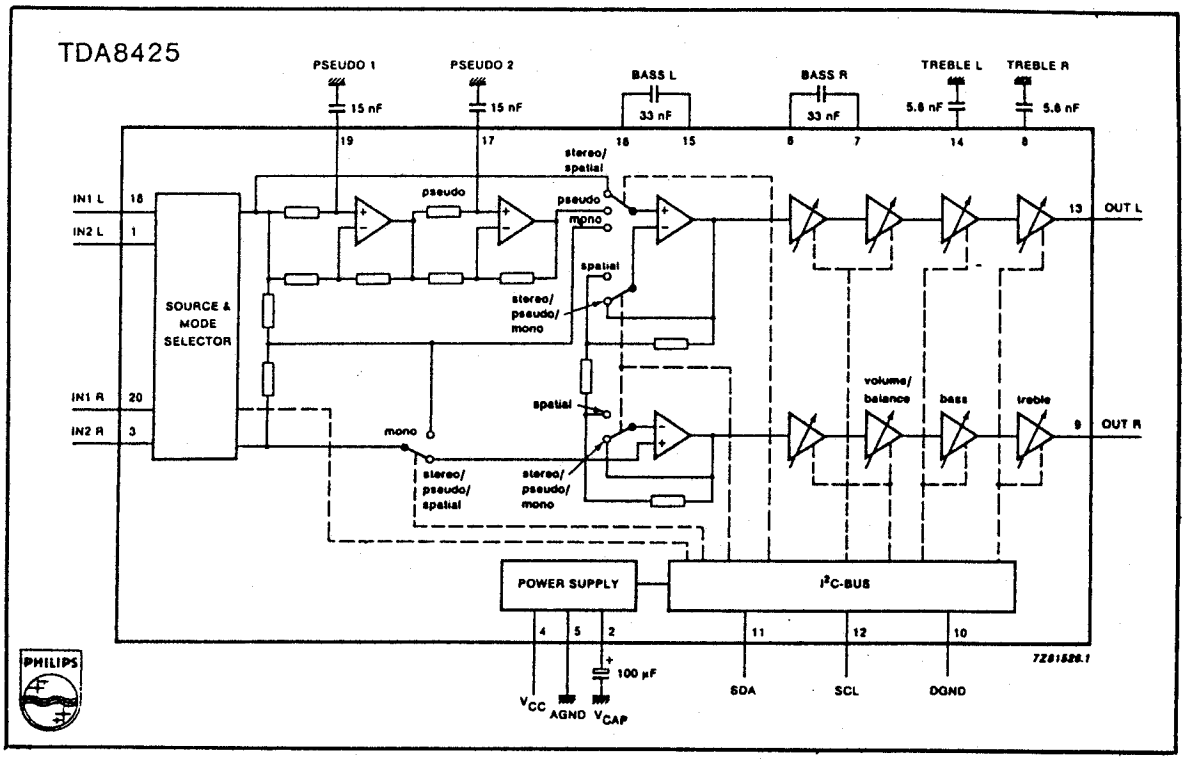
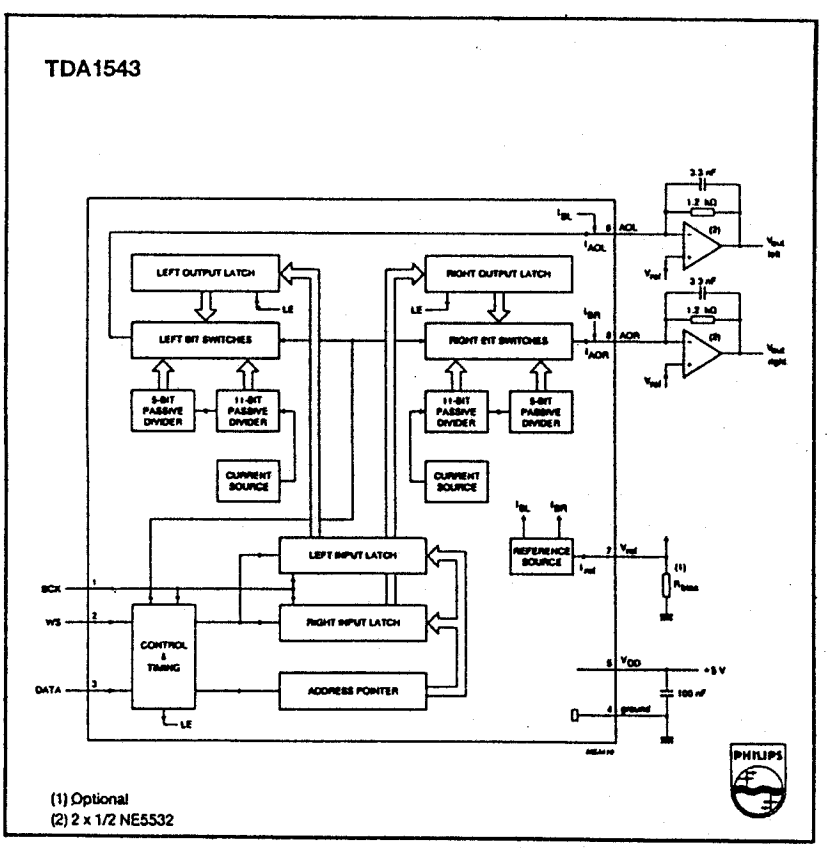


TDA8425

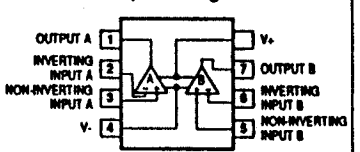


TDA1543



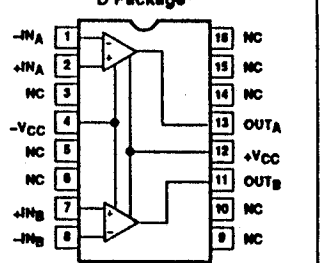
(1) Optional
(2) 2 x 1/2 NE5532

FE, N Packages



TOP VIEW

D Package[1]

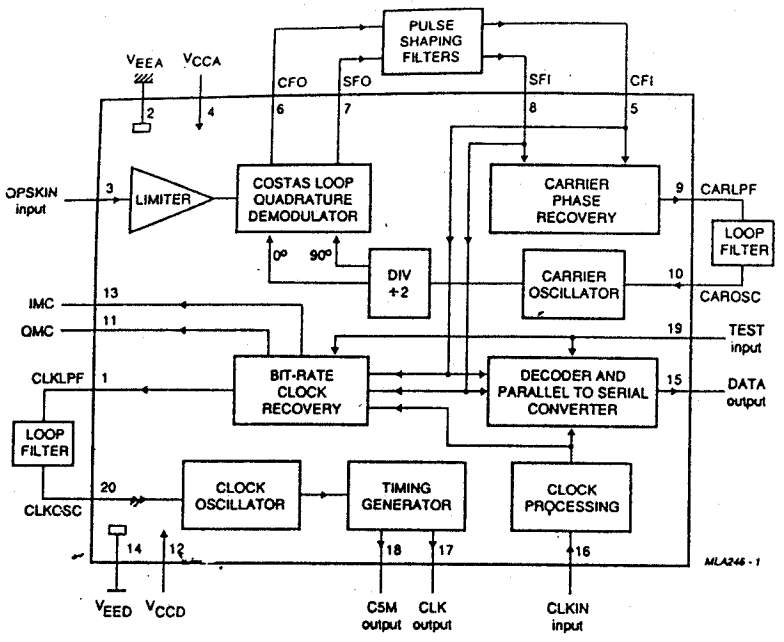


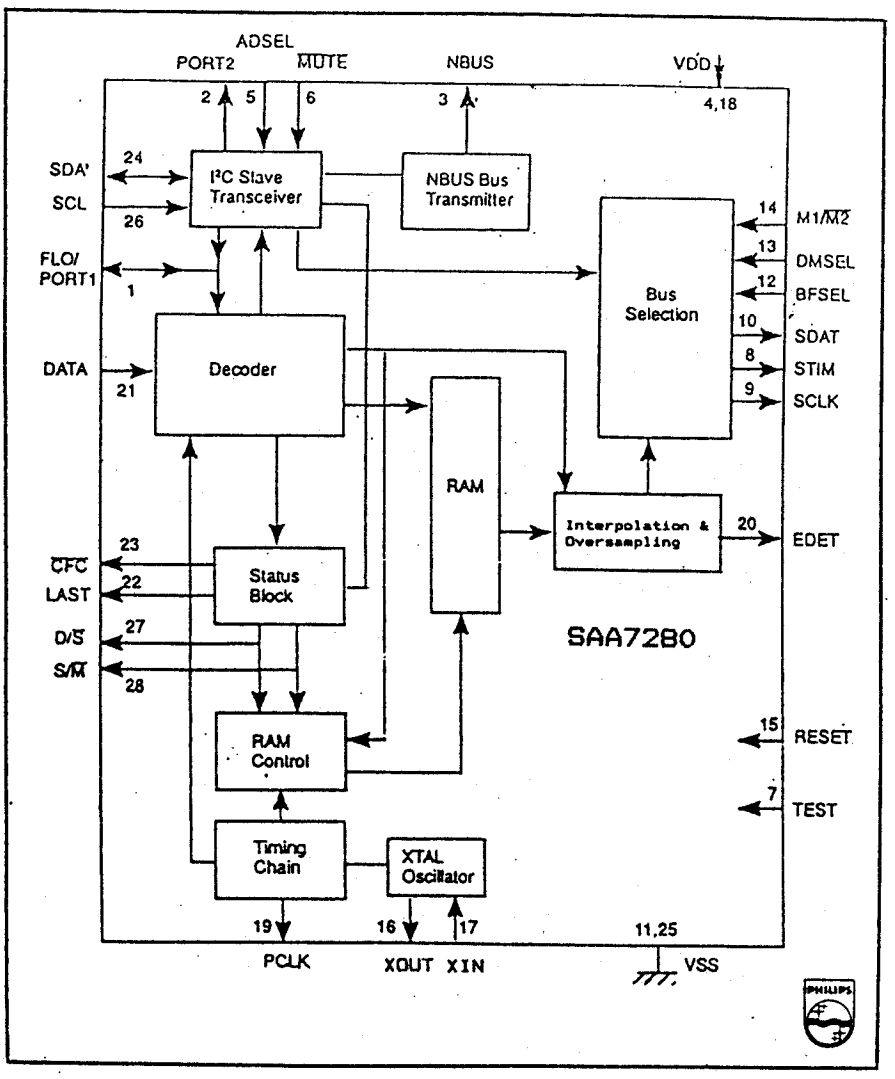
TOP VIEW

NOTE:
1. SOL and non-standard pinout.

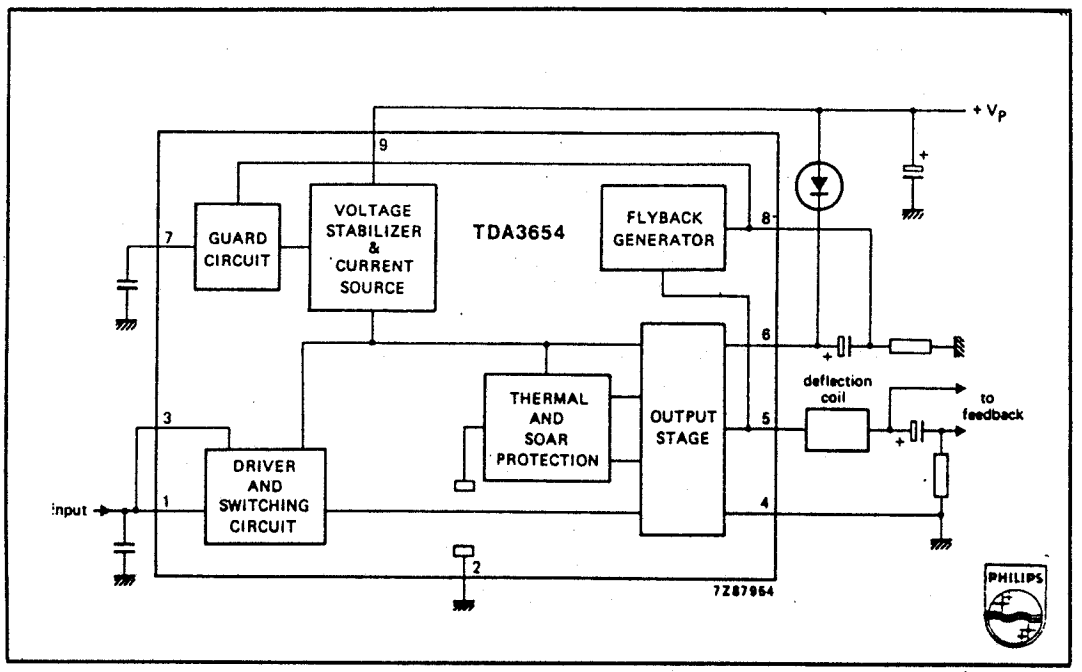
NE5532N

TDA8732


PULSE SHAPING FILTERS
VEEA
VCCA
CFO
SFO
SFI
CFI
2
4
6
7
8
5
OPSKIN input
3
LIMITER
COSTAS LOOP QUADRATURE DEMODULATOR
CARRIER PHASE RECOVERY
9
CARLPF
LOOP FILTER
0°
90°
DIV +2
CARRIER OSCILLATOR
10
CAROSC
IMC
13
QMC
11
19
TEST input
CLKLPF
1
BIT-RATE CLOCK RECOVERY
DECODER AND PARALLEL TO SERIAL CONVERTER
15
DATA output
LOOP FILTER
20
CLOCK OSCILLATOR
TIMING GENERATOR
CLOCK PROCESSING
CLKOSC
14
12
18
17
16
MLA246 - 1
VEED
VCCD
C5M output
CLK output
CLKIN input


ADSEL
PORT2
MUTE
NBUS
VDD
2
5
6
3
4,18
SDA
SCL
24
26
I²C Slave Transceiver
NBUS Bus Transmitter
FLO/ PORT1
1
DATA
21
Decoder
Bus Selection
14
M1/M2
13
DMSEL
12
BFSEL
10
SDAT
8
STIM
9
SCLK
RAM
Interpolation & Oversampling
20
EDET
CFC
LAST
23
22
Status Block
D/S
S/M
27
28
SAA7280
RAM Control
15
RESET
7
TEST
Timing Chain
XTAL Oscillator
19
16
17
11,25
PCLK
XOUT
XIN
VSS
PHILIPS

VERTICAL DEFLECTION - TDA3654



Functional description

TDA3654 is a vertical deflection output circuit that drives a vertical deflection system with currents up to about 3 A.

MONOCHIP - PIN DESCRIPTION FOR TDA8362

1- de-emphasise + positive and negative modulation
2- demodulator input
3- demodulator input
4- identification output
5- IF sound input + volume control
6- external sound input
7- IF video output
8- digital section decoup.
9- ground
10- power supply
11- ground
12- tuning decoup.
13- video input
14- peaking
15- external video input
16- A/V input + chroma input
17- brightness
18- Blue output
19- Green output
20- Red output
21- fast blanking input
22- external Red input
23- external Green input
24- external Blue input
25- contrast
26- saturation
27- hue + chroma output
28- B-Y input
29- R-Y input
30- R-Y output
31- B-Y output
32- 4.43Mhz ref. output
33- phase detector
34- 3.58Mhz input
35- 4.43Mhz input
36- horizontal oscillator start
37- horizontal drive output
38- sandcastle/flyback output/input
39- if filter 2
40- if filter 1
41- vertical feedback input
42- vertical ramp generator
43- vertical drive output
44- AFC output
45- IF input
46- IF input
47- AGC output
48- AGC decoup.
49- AGC regulation
50- audio output
51- sound demod. decoup.
52- power-supply decoup.

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Differences with respect to TDA8361

pin 1 solely audio de-emphasise
pin 27 solely hue
pin 32 4.43Mhz output not connected

Functional description of monochip TDA8361/2

-IF Amplifier

The amplifier contains three differential stages with typical 60 dB dynamic control. The demodulator's polarity is suited for both positive and negative modulation in the TDA8362 version (multi-standard PAL, SECAM, L L'), **and for only negative modulation in TDA8361.**
The AFC circuit is driven by the same reference signal as the video demodulator. The AFC output voltage varies in the range 0--6V. The circuit for identifying the presence of the signal in the trasmission channel works independently of the synchronisation circuit : 0V no identification and mute sound; 8V identification and 4.43Mhz chroma frequency; 6V identification and chroma frequency 3.58Mhz.
The AGC system controls the IF amplifier gain is such a way that the amplitude of the output video signal remains constant. The voltage of the AGC capacitor (pin 48) takes into account the IF amplification level. A second loop acts on the tuner to amplify the IF input. The amplification level is regulated externally by potentiometer R111.

-Sound circuit

The inter-carrier signal is amplified/limited and demodulated by a PLL (phase locked loop). The PLL circuit automatically locks onto the incoming signal. The volume controls the amplitude of the composite audio signal (pin 5). (700mV max).

-Horizontal and vertical synchronisation circuit

Upstream of the sync. separator there is an amplifier that raises the synchronism pulse to a fixed level. The separated synchronism pulses are forwaerded to the phase and coincidence detectors. The coincidence detector is used to synchronise the line oscillator and to identify the trasmission channel. The integrated circuit contains a start-up circuit for the horizontal output (pin 36).
The driving pulses for the vertical are generated by a divided circuit. The components for the generation of the vertical ramp are connected to pin 42. The feedback voltage from the vertical amplification stage is connected to pin 41.

-Video filters

The integrated circuit contains a chroma trap and band-pass circuit. The filters are implemented by means of circuits with gyrators. The chroma trap is active when the chroma input pin (pin 16) is connected to ground or directly to the power supply. If pin 16 is held at intermediate voltage, the trap does not operate and therefore SVHS application is possible. The luminance delay line and the delay for the peaking circuit are implemented by means of circuits with gyrators.

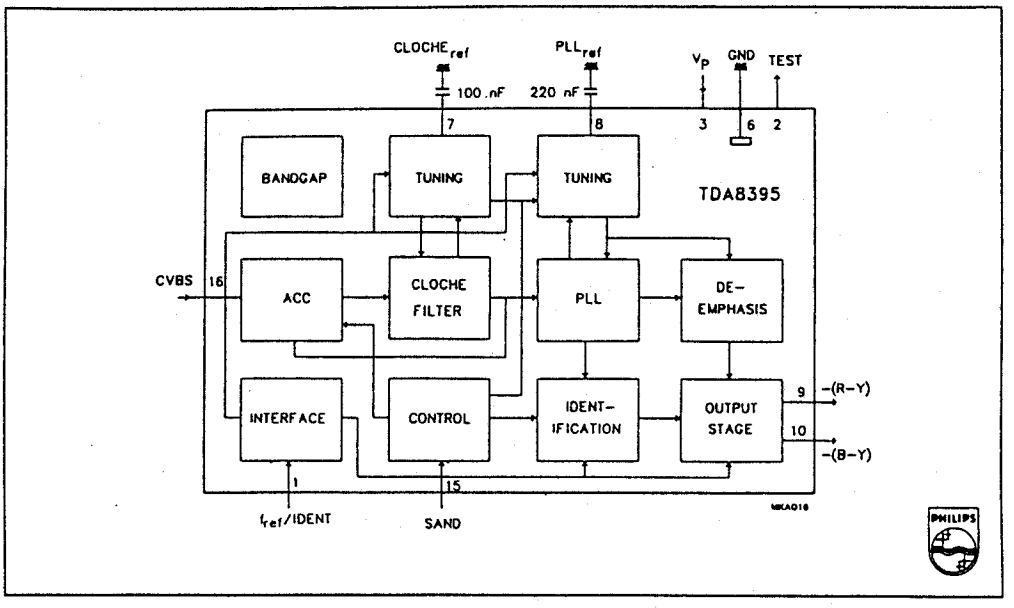
-Colour decoder

The colour decoder contains a quartz-controlled oscillator, a killer circuit, and a colour difference demodulator. The 90° phase deviation is effected internally. The decoder adapts automatically to the PAL and NTSC systems. For this purpose there are two pins 35 and 34.
With TDA8362, a PAL/SECAM/NTSC automatic multi-standard decoder may be built through the addition of the SECAM TDA8395 decoder.

-RGB output circuit

The colour difference signals enter the matrices with the luminance signal to obtain the RGB signals. The integrated circuit handles the internal signals and those coming from outside (SCART connector). Brightness and contrast act both on the internal signals and the external ones. Pin 21 of the fast blanking has a second, 4V, thereshold level. When this level is exceeded the RGB outputs are blocked and the OSD signals are sent directly to the aoutput amplifier. The RGB signals have an amplitude of about 4V under nominal operating conditions.

SECAM DECODER - TDA8395



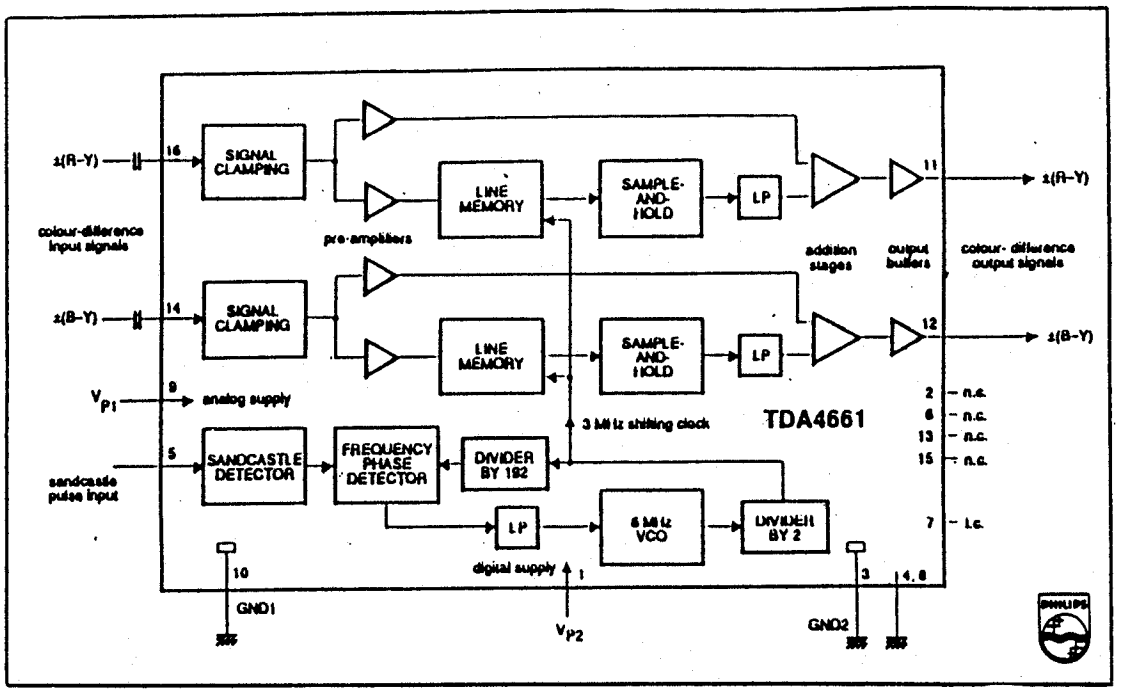
Pining description TDA8395

1	identification input
2	test
3	power supply
4	n.c.
5	n.c.
6	ground
7	cloche filter reference
8	PLL reference
9	-(R-Y) output
10	-(B-Y) output
11	n.c.
12	n.c.
13	n.c.
14	n.c.
15	sandcastle input
16	video input

Functional description

TDA8395 is a completely integrated SECAM decoder. The integrated circuit incorporates HF and LF filters, a demodulator, and an identification circuit. No regulation is necessary. Requirements include a stable reference frequency for calibration and a sandcastle two-level pulse for the blanking and burst gating functions.

DELAY LINE - TDA4661

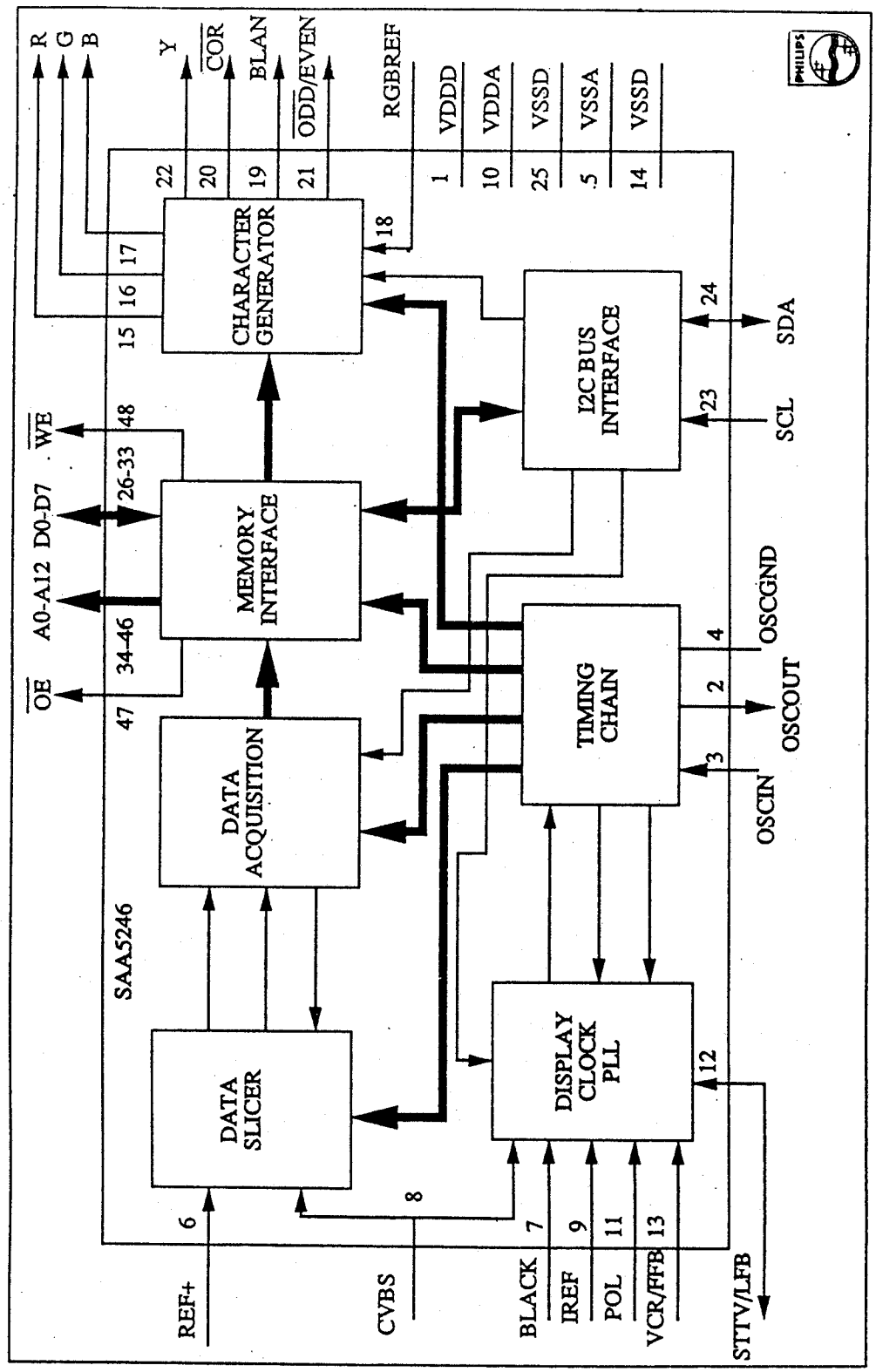


Pinout description

1	digital section +5V power supply
2	not connected
3	digital section ground
4	internally connected
5	sandcastle input
6	not connected
7	internally connected
8	internally connected
9	analog section +5V power supply
10	analog section ground
11	(R-Y) signal output
12	(B-Y) signal output
13	not connected
14	(B-Y) signal input
15	not connected
16	(R-Y) signal input

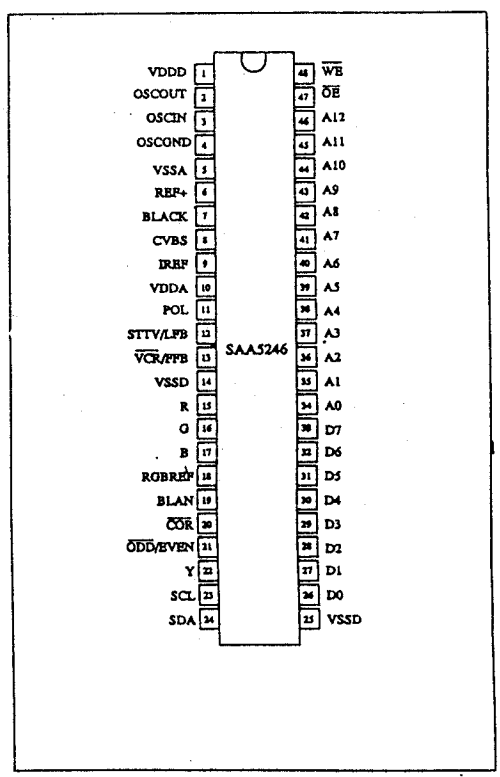
Functional description

The integrated circuit TDA4661 is a delay line in integrated baseband. It interfaces with decoders with colour difference output signals (R-Y) and (B-Y).


SAA5246
CHARACTER GENERATOR
MEMORY INTERFACE
DATA ACQUISITION
DATA SLICER
DISPLAY CLOCK PLL
TIMING CHAIN
I2C BUS INTERFACE
R
G
B
Y
COR
BLAN
ODD/EVEN
RGBREF
VDDD
VDDA
VSSD
VSSA
VSSD
WE
D0-D7
A0-A12
OE
SDA
SCL
OSCGND
OSCOUT
OSCIN
REF+
CVBS
BLACK
IREF
POL
VCR/FFB
STTV/LFB

Pin description for TELETEXT SAA5246AP/..

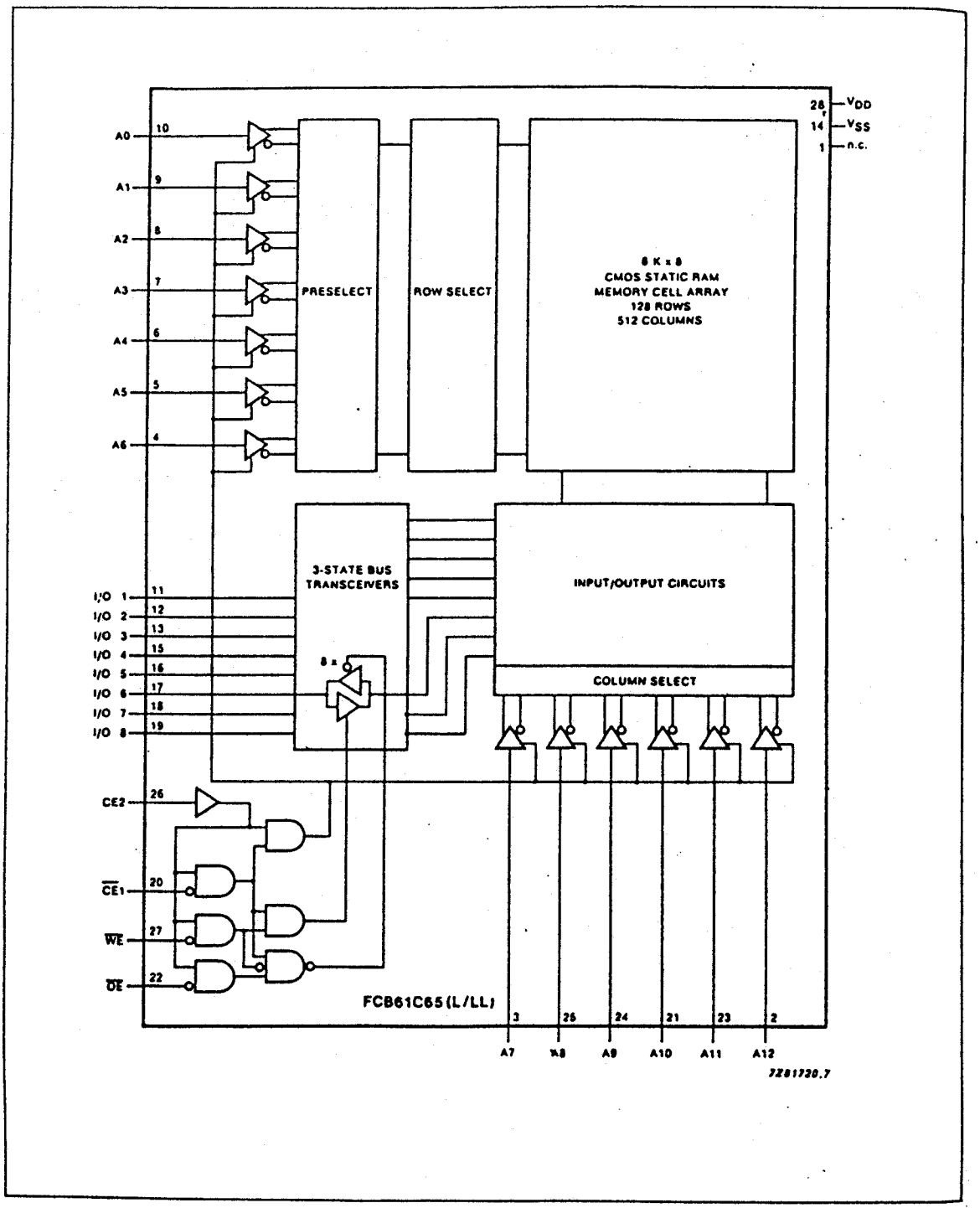
1	power supply	
2	oscillator output	
3	oscillator input	
4	oscillator ground	
5	analogic ground	
6	ADC reference voltage	
7	black level reference input	
8	composite video input	
9	current reference input	
10	power supply analogic	
11	polarity section	
12	sync input/output	
13	PLL time-contrast input	
14	ground	
15	Red output	
16	Green output	
17	Blue output	
18	DC voltage level on RGB	
19	Fast blanking output	
20	contrast-reduction programmable output	
21	de-interlace output	
22	Y output	
23	i2c bus	
24	i2c bus	
25	ground	
26	D0	RAM DATA
27	D1	
28	D2	
29	D3	
30	D4	
31	D5	
32	D6	
33	D7	
34	A0	RAM ADDRESS
35	A1	
36	A2	
37	A3	
38	A4	
39	A5	
40	A6	
41	A7	
42	A8	
43	A9	
44	A10	
45	A11	
46	A12	
47	output enable	
48	write enable	



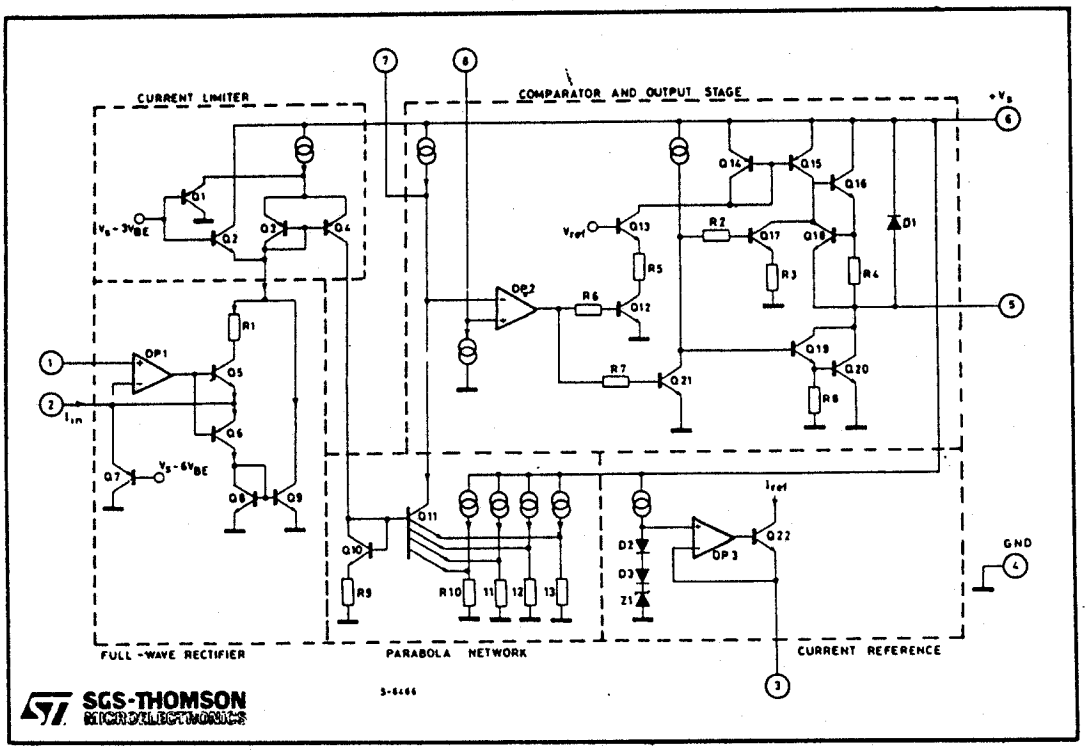
Functional description

The integrated circuit SAA5246 is a teletext decoder with 4 page memory with separated RAM.

RAM - FCB61C65



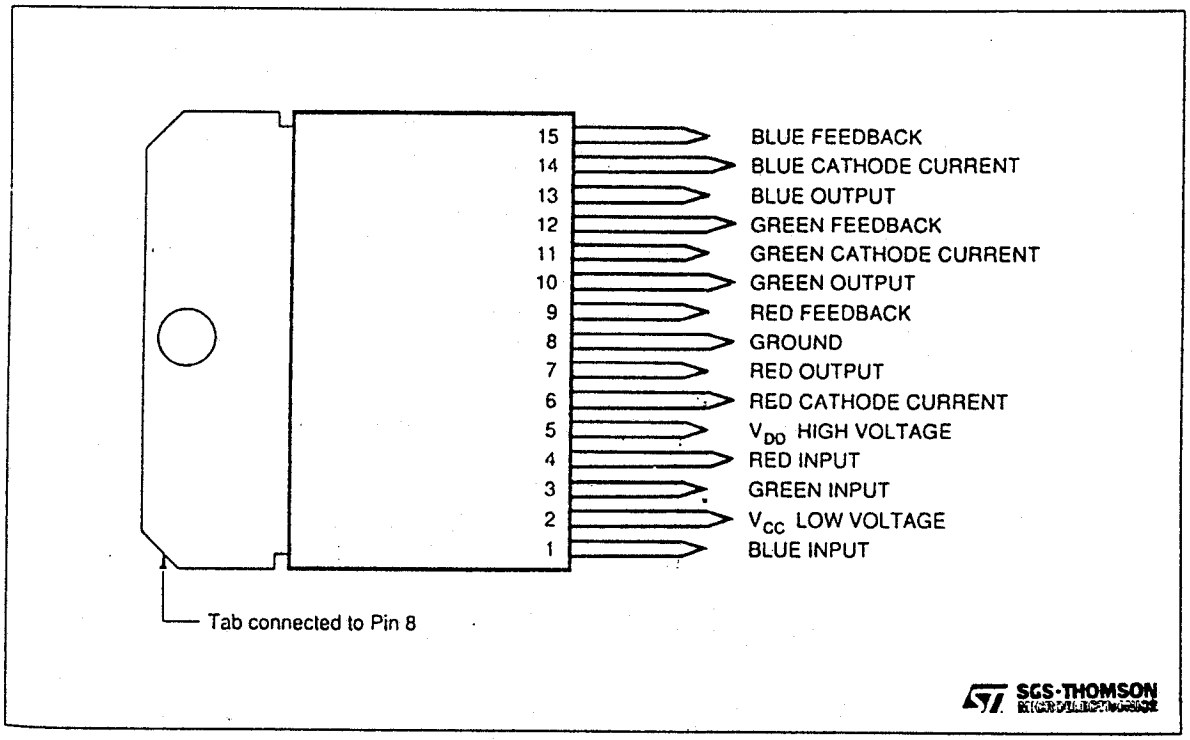
DIODE MODULATOR - TDA 4950 / TDA 8145



PINNING

1- keystone correction input
2- frame sawtooth current input
3- current reference
4- ground
5- output
6- power supply
7- parabola output/inverting input
8- non-inverting input

RGB - TEA5101A



PINNING

1- Blue input
2- low voltage input
3- Green input
4- Red input
5- high voltage input
6- Red cathode current
7- Red output
8- ground
9- Red feedbackr
10- Green output
11- Green cathode current
12- Green feedback
13- Blue output
14- Blue cathode current
15- Blue feedback

For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel:- 01844-351694 Fax:- 01844-352554
Email:- enquiries@mauritron.co.uk

TVCOLOR UC8570C2D20 - GOODMANS 2875

PART. NO. IFI	DESCRIZIONE DESCRIPTION
8789M857002	MOBILE **CABINET**
88701901049	ALTOPARLANTE 60X125 **LOUDSPEAKER**
88701901053	ALTOPARLANTE D.50 **LOUDSPEAKER**
88720101062	TRC A66ECY13X01
88700506117	BOBINA DI SMAGNETIZZAZIONE **DEMAGNETIZATION COIL**
88620359800	TASTO INTERRUTTORE RETE **BUTTON FOR MAIN SWITCH**
88620749900	VETRINO RICEVITORE **GLASS RECEIVER**
88620749800	SPORTELLO COMANDI **PANEL CONTROL**
88620310200	PULSANTE SPORTELLO COMANDI **BUTTON FOR COMMAND DOOR**
88620118910	CERNIERA SINISTRA SPORTELLO **HINGLE FOR PANEL CONTROL LEFT**
88620118920	CERNIERA DESTRA SPORTELLO **HINGLE FOR PANEL CONTROL RIGHT**
88620606100	CRUSCOTTO COMANDI **DASH PANEL**
88701308131	TELECOMANDO **REMOTE CONTROL**
88620209010	SCHIENALE **BACK COVER**
88640133800	SCATOLA IMBALLO **PACKING BOX**
88640208710	ESPANSO DESTRO **POLISTIROL INSERT RIGHT**
88640208720	ESPANSO SINISTRO **POLISTIROL INSERT LEFT**
	CHASSIS F-11
87894442015	AUDIO STEREO NICAM **SOUND MODULE ST. NICAM**
8789943800T	MODULO RGB+ZOCCOLO TRC **TUBE SOCKET MODULE**

TVCOLOR UC8760C2A20 - GOODMANS 2575

PART. NO. IFI	DESCRIZIONE DESCRIPTION
8789M876003	MOBILE **CABINET**
88701901049	ALTOPARLANTE 60X125 **LOUDSPEAKER**
88701901053	ALTOPARLANTE D.50 **LOUDSPEAKER**
88720101027	TRC A59EAS00X01
88700506115	BOBINA DI SMAGNETIZZAZIONE **DEMAGNETIZATION COIL**
88620359800	TASTO INTERRUTTORE RETE **BUTTON FOR MAIN SWITCH**
88620749900	VETRINO RICEVITORE **GLASS RECEIVER**
88620749800	SPORTELLO COMANDI **PANEL CONTROL**
88620310200	PULSANTE SPORTELLO COMANDI **BUTTON FOR COMMAND DOOR**
88620118910	CERNIERA SINISTRA SPORTELLO **HINGLE FOR PANEL CONTROL LEFT**
88620118920	CERNIERA DESTRA SPORTELLO **HINGLE FOR PANEL CONTROL RIGHT**
88620606100	CRUSCOTTO COMANDI **DASH PANEL**
88701308131	TELECOMANDO **REMOTE CONTROL**
88620208710	SCHIENALE **BACK COVER**
88640133900	SCATOLA IMBALLO **PACKING BOX**
88640208910	ESPANSO DESTRO **POLISTIROL INSERT RIGHT**
88640208920	ESPANSO SINISTRO **POLISTIROL INSERT LEFT**
	CHASSIS F-11
87894442015	AUDIO STEREO NICAM **SOUND MODULE ST. NICAM**
8789943800T	MODULO RGB+ZOCCOLO TRC **TUBE SOCKET MODULE**

MODULO RGB+ZOCCOLO TRC - **TUBE SOCKET MODULE**

PART. NO. IFI	DESCRIZIONE DESCRIPTION	
8789943800T	MODULO RGB+ZOCCOLO TRC	
	TUBE SOCKET MODULE	
88710299007	DIODE 1N4001	D 1
88710201080	DIODE ZENER 2V4	D 2
88710299024	DIODE 1N4148	D 3/4/5/7
88710061005	TR BF422	TR 1
88700901017	ZOCCOLO TRC	
	TRC SOCKET	
88710301265	C.I. TEA5101A	IC 1
88710299019	DIODE 1N4007	D 6

AUDIO STEREO NICAM - **SOUND MODULE ST. NICAM**

PART. NO. IFI	DESCRIZIONE DESCRIPTION	
87894442015	AUDIO STEREO NICAM **SOUND MODULE ST. NICAM**	
88400200070	FILTRO TH317BP0S-3324 **FILTER**	F 1
88400200053	FILTRO SFT 6MA **FILTER**	F 3
88400200072	FILTRO CDSH 6,0ME **FILTER**	F 5
88400200059	FOS 32,9MDA50P	FOS 1
88700501105	BOBINA **COIL**	L 3
88701101026	QUARZO HC18 13.104MHZ **CRYSTAL**	QZ 1
88701101024	QUARZO HC18 17.472MHZ **CRYSTAL**	QZ 2
88701101020	QUARZO 10MHZ **CRYSTAL**	QZ 3
88710201081	DIODE ZENER ZPY12V	D 4
88710201086	DIODE BB809	D 2
88710301239	C.I. TDA8732	IC 1
88710301240	C.I. SAA7280	IC 2
88710301241	C.I. TDA1543	IC 3
88710301242	C.I. NE5532N	IC 4
88710301227	C.I. TDA3856	IC 5
88710301243	C.I. TDA8415	IC 6
88710301244	C.I. TDA8425	IC 7
88700503122	BOBINA **COIL**	L 1/2
88700503193	BOBINA **COIL**	L 6
88710102017	TR BF 959	TR 1/5
88710104029	TR BC 548B	TR 2/3/4/8/9
88710201074	DIODE BB405B	D 1
88710201085	DIODE BAW62	D 3

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Oxon OX9 4QY
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Email:- enquiries@mauritron.co.uk

CHASSIS F-11

PART. NO. IFI	DESCRIZIONE DESCRIPTION	
88701201006	PTC	PTC 1
88701201008	PTC	PTC 2
88701801016	INTERRUTTORE RETE **MAIN SWITCH**	
88702202005	RICEVITORE **RECEIVER**	IR 1
88710202012	DIODE LED	D 10
88710201015	DIODE ZENER ZTK 33B	D 15
88702403033	PRESA CUFFIA **HEADFONE SOCKET**	
88702501101	TUNER	
88710105015	TR BU 508A/S 2000	TR 15
88710103037	TR TIP 115	TR 26
88710105014	TR BU 508D/S 2055	TR 20
88700503182	BOBINA **COIL**	L 4
88700503186	BOBINA **COIL**	L 8/9
88700503185	BOBINA **COIL**	L 10
88700503132	BOBINA **COIL**	L 13
88700503129	BOBINA **COIL**	L 14
88700503137	BOBINA **COIL**	L 15
88700502109	BOBINA **COIL**	L 17
88700503120	BOBINA **COIL**	L 19
88700503139	BOBINA **COIL**	L 20
88702403034	PRESA ALTOPARLANTI **EXTERNAL LOUDSPEAKER SOCKET**	
88702403024	PRESA SCART **SCART SOCKET**	SC1
88400200071	FILTRO TPS 6.0 MD **FILTER**	F 4
88700402101	TRASF. ALIMENTAZIONE **SWITCH MODE TRANSFORMER**	T 1
88700402043	TRASF. PILOTA **DRIVER TRANSFORMER**	T 2
88700402098	TRASF. EHT **EHT TRANSFORMER**	T 3
88710202067	DIODE BYW95/A-BYW74	D 43
88710401016	MICRO. PCA84C841P/061	IC 1
88710301226	C.I. PCA8581P/ST24C02CP	IC 2
88710301225	C.I. TC5565/HYN6264	IC 3
88710301233	C.I. SAA5246AP	IC 4
88710301272	C.I. 74HCT157	IC 5
88710301218	C.I. TDA1521A	IC 8
88710301271	C.I. TDA8361	IC 9
88710301259	C.I. TDA4661	IC 11

CHASSIS F-11

PART. NO. IFI	DESCRIZIONE DESCRIPTION	
88710301273	C.I. L78M08	IC 12
88710301178	C.I. MC14053/HEF4053 **(UC8570)**	IC 13
88710301193	C.I. TDA4601	IC 14
88710301194	C.I. LM 317	IC 15
88/10301138	C.I. MC7805/LM7805	IC 16
88710301203	C.I. TDA3654	IC 17
88710301285	C.I. TDA8145	IC 18
88701101020	QUARZO 10MHZ **CRYSTAL**	QZ 1
88701101022	QUARZO 27MHZ **CRYSTAL**	QZ 2
88701101008	QUARZO 4,43MHZ **CRYSTAL**	QZ 3
88400200068	FOS	FOS 1
88700903001	PORTAFUSIBILE **FUSE HOLDER**	PFU 1
88701401019	FUSIBILE 2A **FUSE**	FU 1
88701306036	TASTIERA **KEYBOARD**	
88710299024	DIODE 1N4148	D 1/2/3/4/5/9/25 30/37/46/48/63
88710201066	DIODE ZENER ZPD 8V2	D 19/20
88/10201058	DIODE ZENER 18V	D 49
88710201038	DIODE ZENER BZX79C 5V1	D 61
88710104032	TR BC 558B/BC 308B	TR 1/24
88710104029	TR BC 548B	TR 2/3/10/13/14 18/22/25/27
88710104031	TR BC 548C	TR 19
88710104044	TR BC 639	TR 21
88710104038	TR BC 338/25	TR 28
88700503097	BOBINA **COIL**	L 1
88707352257	BOBINA **COIL**	L 2
88700503196	BOBINA **COIL**	L 3
88700503106	BOBINA **COIL**	L 5
88700503142	BOBINA **COIL**	L 18
88700503097	BOBINA **COIL**	L 21
88710201078	DIODE ZENER ZPD12	D 11
88710202002	DIODE BA 157	D 14/35/47/50/52 53/54
88710299005	DIODE 1N4148	D 16/17/21/22/23 60/62
88710299005	DIODE 1N4148 **(UC8570)**	D 24/26
88710202069	DIODE BAT 81	D 28
88710299019	DIODE 1N4007	D 31/32/33/34
88710299007	DIODE 1N4001	D 36/44/51
88710202056	DIODE BYV95/C-BYW36	D 38/DJ1/39/42

CHASSIS F-11

PART. NO. IFI	DESCRIZIONE DESCRIPTION	
88710201060	DIODE PLR15T/BY448	D 45
88700503130	BOBINA **COIL**	L 16

For Service Manuals Contact
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8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
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Email:- enquiries@mauritron.co.uk

To Go with all Formats chassis ...

S7899437117B
S7899437DDB
S7899437578

REPLACING "CHASSIS" IN GOODMANS 2575/2875/3375

Chassis fitted with TDA 8362 "jungle" IC:
Used with CRT base having 5 presets (highlight and lowlight adjustment.)

Chassis fitted with TDA 8362A "jungle" IC:
Features AUTOMATIC CRT CUTOFF ADJUSTMENT and is used with CRT base having just 2 presets (highlight adjustment).

Interchangeability
Do not try to match the TDA8362 to the 2-preset CRT base !
The TDA8362A may be matched to the 5-preset CRT base by taking the following steps:

1. Fit a 1K resistor to the existing blank surface mount resistor position on the print side. The position is fairly obvious, above a 560 ohm tubular resistor and below a heatsink lug, connected to terminal "5" (yellow wire).

2. Remove "R20", a zero ohm link with three brown bands, mounted on the print side near IC1.

3 Check the cutoff presets R14/15/18 are at mid-position.

4. Follow the "quick" procedure below for setting up:

   (a) Trim HT and picture size, geometry, focus with a crosshatch pattern (etc.) as necessary, then tune in a broadcast.

   (b) Display teletext and adjust the "G2" preset on the LOPTx (lower one) for a comfortable level of teletext display contrast.

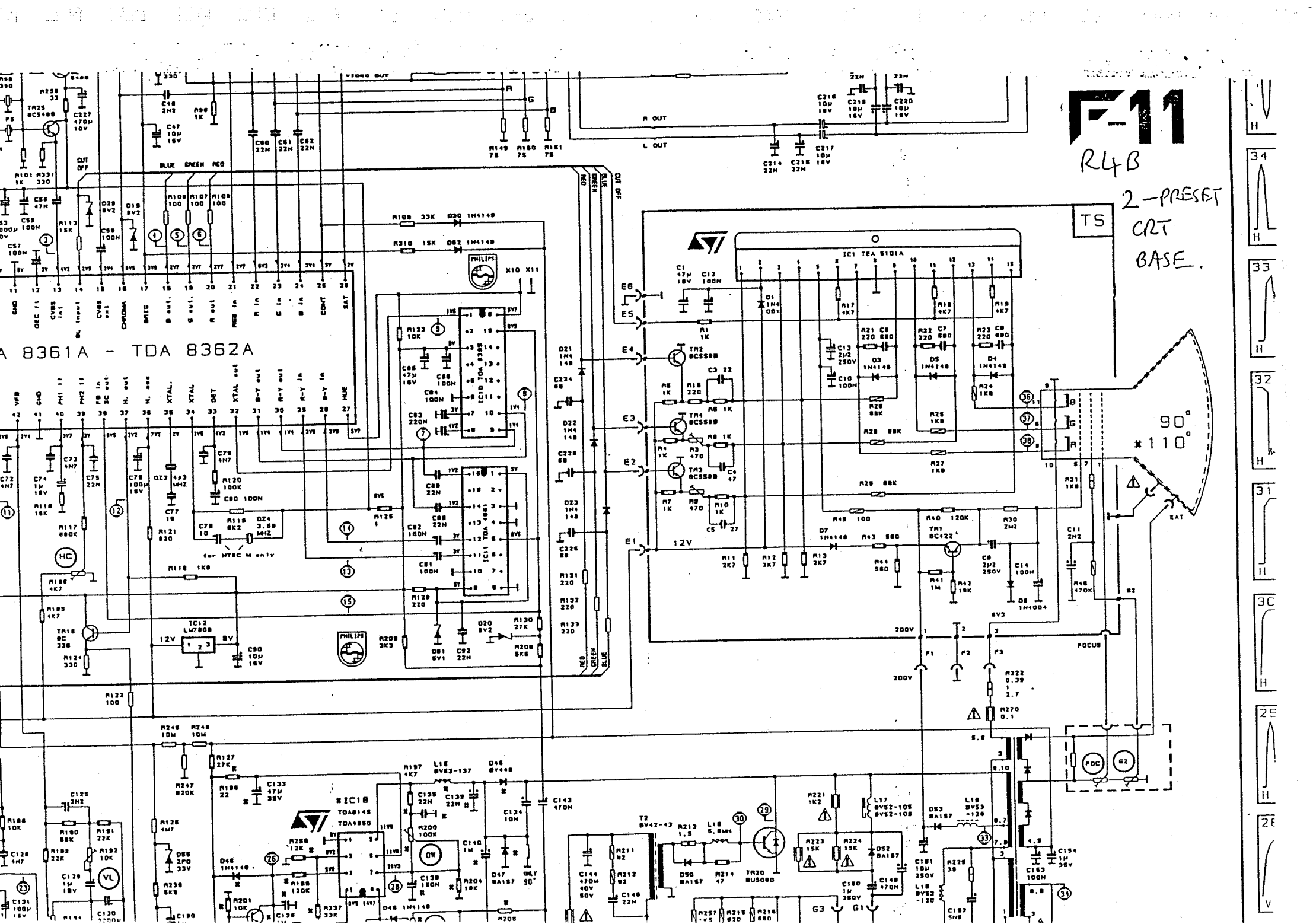
   (c) Power off, then on again. Check the greyscale / colour bars and trim R3 (G) and R9 (B) highlight presets if necessary.

New NICAM module
The manufacturer is to fit a new NICAM module in production, recognisable by the presence of an SAA7283 chip. It is not interchangeable with the earlier module (no sound will result), therefore **any chassis returned for credit must include the NICAM module supplied with it.**

Distribution: supply with all replacement chassis for above models.

Date: 10/01/95

From: Comet Technical Department


F11
R4B
2-PRESET
CRT
BASE.
TS
A 8361A - TDA 8362A
IC1 TEA 5101A
90°
110°
12V
200V
EAT
FOCUS
R OUT
L OUT
BLUE GREEN RED
IC18
TDA8145
TDA8950

CONCOREZZO, 20/05/94

LISTINO RICAMBI
SPARE PARTS LIST

TVCOLOR

UC8760C2A20 GOODMANS 2575

UC8570C2D20 GOODMANS 2875

UC9A85C2D21 GOODMANS 3375

TVCOLOR UC8760C2A20
GOODMANS 2575

PART.NO.I.F.I.	DESCRIZIONE /DESCRIPTION	NETTO L.
8789M87603	MOBILE CABINET	51.000
88701901049	ALTOPARLANTE 60X125 LOUDSPEAKER	4.050
88701901041	ALTOPARLANTE D. 50 LOUDSPEAKER	1.250
88720101027	TRC A59EAS00X01	205.000
88700506115	BOBINA DI SMAGNETIZZAZIONE ⚠ DEMAGNETIZATION COIL	4.900
88620359801	TASTO INTERRUTTORE RETE BUTTON FOR MAIN SWITCH	610
88620749900	VETRINO RICEVITORE GLASS RECEIVER	510
88620749800	SPORTELLO COMANDI PANEL CONTROL	1.020
88620310200	PULSANTE SPORTELLO COMANDI BUTTON FOR COMMAND DOOR	920
88620118910	CERNIERA SINISTRA SPORTELLO HINGLE FOR PANEL CONTROL LEFT	150
88620118920	CERNIERA DESTRA SPORTELLO HINGLE FOR PANEL CONTROL RIGHT	150
88620606100	CRUSCOTTO COMANDI DASH PANEL	1.020
88701308132	TELECOMANDO REMOTE CONTROL	24.500
88620208710	SCHIENALE BACK COVER	11.750
88640133901	SCATOLA IMBALLO PACKING BOX	6.650
88640208910	ESPANSO DESTRO POLISTIROL INSERT RIGHT	2.650

TVCOLOR UC8760C2A20
GOODMANS 2575

PART NO.I.F.I.	DESCRIZIONE/DESCRIPTION	NETTO L.
88640208920	ESPANSO SINISTRO POLISTIROL INSERT LEFT	2.650
8789943759B	CHASSIS F-11	229.500
8789944201S	AUDIO STEREO NICAM SOUND MODULE ST. NICAM	60.200
8789943800T	MODULO RGB+ZOCCOLO TRC TUBE SOCK..T MODULE	11.250

TVCOLOR UC8570C2D20
GOODMANS 2875

PART.NO.I.F.I.	DESCRIZIONE/DESCRIPTION	NETTO L.
8789M857202	MOBILE CABINET	61.200
88701901049	ALTOPARLANTE 60X125 LAOUDSPEAKER	4.050
88701901041	ALTOPARLANTE D. 50 LOUDSPEAKER	1.250
88720101062	TRC A66ECY13X01	262.150
88700506117	BOBINA DI SMAGNETIZZAZIONE ⚠ DEMAGNETIZATION COIL	5.500
88620359801	TASTO INTERRUTTORE RETE BUTTON FOR MAIN SWITCH	610
88620749900	VETRINO RICEVITORE GLASS RECEIVER	510
88620749800	SPORTELLO COMANDI PANEL CONTROL	1.020
88620310200	PULSANTE SPORTELLO COMANDI BUTTON FOR COMMAND DOOR	920
88620118910	CERNIERA SINISTRA SPORTELLO HINGLE FOR PANEL CONTROL LEFT	150
88620118920	CERNIERA DESTRA SPORTELLO HINGLE FOR PANEL CONTROL RIGHT	150
88620606100	CRUSCOTTO COMANDI DASH PANEL	1.020
88701308132	TELECOMANDO REMOTE CONTROL	24.500
88620209010	SCHIENALE BACK COVER	12.750
88640133801	SCATOLA IMBALLO PACKING BOX	6.250
88640208710	ESPANSO DESTRO POLISTIROL INSERT RIGHT	4.400

TVCOLOR UC8570C2D20
GOODMANS 2875

PART.NO.I.F.I	DESCRIZIONE/DESCRIPTION	NETTO L.
88640208720	ESPANSO SINISTRO POLISTIROL INSERT LEFT	4.400
8789943757B	CHASSIS F-11	233 000
8789944201S	AUDIO STEREO NICAM SOUND MODULE ST. NICAM	60.200
8789943800T	MODULO RGB+ZOCCOLO TRC TUBE SOCKET MODULE	11.250

TVCOLOR UC9A85C2D21
GOODMANS 3375

PART.NO I.F.I.	DESCRIZIONE/DESCRIPTION	NETTO L.
8789M9A8302	MOBILE CABINET	71.400
88701901055	ALTOPARLANTE D.100 LOUDSPEAKER	4.100
88701901053	ALTOPARLANTE D.50 LOUDSPEAKER	1.250
88720101061	TRC A79ECU33X01	604.000
88700506108	BOBINA DI SMAGNETIZZAZIONE ⚠ DEMAGNETIZATION COIL	13.900
88620359801	TASTO INTERRUTTORE RETE BUTTON FOR MAIN SWITCH	610
88620749900	VETRINO RICEVITORE GLASS RECEIVER	510
88620749800	SPORTELLO COMANDI PANEL CONTROL ← CONTROL DOOR	1.020
88620310200	PULSANTE SPORTELLO COMANDI BUTTON FOR COMMAND DOOR	920
88620118910	CERNIERA SINISTRA SPORTELLO HINGLE FOR PANEL CONTROL LEFT	150
88620118920	CERNIERA DESTRA SPORTELLO HINGLE FOR PANEL CONTROL RIGHT	150
88620606100	CRUSCOTTO COMANDI DASH PANEL	1.020
88701308132	TELECOMANDO REMOTE CONTROL	24.500
88620209100	SCHIENALE BACK COVER	14.350
88640134100	SCATOLA IMBALLO PACKING BOX	9.200

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Email:- enquiries@mauritron.co.uk

TVCOLOR UC9A85C2D21
GOODMANS 3375

PART.NO.I.F.I.	DESCRIZIONE/DESCRIPTION	NETTO L.
87899437A4B	CHASSIS F-11	245 000
87894442015	AUDIO STEREO NICAM SOUND MODULE ST. NICAM	60.200
8789943803T	MODULO RGB+ZOCCOLO TRC TUBE SOCKET MODULE	11.250

MODULO RGB+ZOCCOLO TRC	8789943800T
TUBE SOCKET MODULE	

PART.NO.I.F.I.	DESCRIZIONE/DESCRIPTION		NETTO L.
8789943800T	MODULO RGB+ZOCCOLO TRC		11.250
	TUBE SOCKET MODULE		
88710299007	DIODE 1N4001	D 1	50
88710201080	DIODE ZENER 2V4	D 2	50
88710299024	DIODE 1N4148	D 3/4/5/7	50
88710061005	TR BF422	TR 1	200
88700901017	ZOCCOLO TRC		1.100
	TRC SOCKET		
88710301265	C.I. TEA5101A	IC 1	1.730
88710299019	DIODE 1N4007	D 6	50
88141842019	R. 1,8 KOHM 1/2W	R 24/25/27/31	60
88146852018	R. 68 KOHM 1/2W	R 26/28/29	50
88140132019	R. 100 OHM 1/2W	R 45	50
88144762018	R. 470 KOHM 1/2W	R 46	50
88700705154	TRIMMER 5 KOHM	R 14/15/16	150
88122272015	R. 2,2 MOHM 1/4W	R 30	50
8812334201A	R. 3,3KOHM 1/4W MELF	R 1	50
8812223201A	R. 220 OHM 1/4 MELF	R 2/21/33/23	50
8812154201A	R. 1,5 KOHM 1/4W MELF	R 4/5/7/11/12/13	50
8812124201A	R. 1,2 KOHM 1/4W MELF	R 6/8/10	50
8812474201A	R. 4,7 KOHM 1/4W MELF	R 17/18/19	50
8812000001A	R. 0 OHM MELF	J 1/2 R 20	50
8812126201A	R. 120 KOHM 1/4W MELF	R 40	50
8812017201A	R. 1 MOHM 1/4W MELF	R 41	50
8812185201A	R. 18 KOHM 1/4W MELF	R 42	50
8812563201A	R. 560 OHM 1/4W MELF	R 43/44	50
88700705153	TRIMMER 500 OHM	R 3/9	150
88224722825	C. EL. 47 MF 16 V.	C 1/2	50
88222218825	C. EL. 2,2 MF 250V.	C 9/13	110
88330165325	C. 100 NF 250V.	C 10	160
88460162825	C. 100 NF 50V.	C12	50

MODULO RGB+ZOCCOLO TRC 8789943800T
TUBE SOCKET MODULE

PART.NO.I.F.I.	DESCRIZIONE/DESCRIPTION		NETTO L.
8842012201A	C. 10 PF 50V. MELF	C 3	50
8842332201A	C. 33 PF 50V. MELF	C 4	50
8842222201A	C. 22 PF 50V. MELF	C 5	50
8842683201A	C. 680 PF 50V. MELF	C 6/7/8	50
88332248340	C. 2,2 NF 1KV.	C 11	50

MODULO RGB+ZOCCOLO TRC TUBE SOCKET MODULE	8789943803T

PART.NO.I.F.I.	DESCRIZIONE/DESCRIPTION		NETTO L.
8789943803T	MODULO RGB+ZOCCOLO TRC TUBE SOCKET MODULE		11.250
88710299007	DIODE 1N4001	D 1	50
88710201080	DIODE ZENER 2V4	D 2	50
88710299024	DIODE 1N4148	D 3/4/5/7	50
88710061005	TR BF422	TR 1	200
88700901017	ZOCCOLO TRC TRC SOCKET		1.100
88710301265	C.I. TEA5101A	IC 1	1.730
88710299019	DIODE 1N4007	D 6	50
88141842019	R. 1,8 KOHM 1/2W	R 24/25/27/31	60
88146852018	R. 68 KOHM 1/2W	R 26/28/29	50
88144732019	R. 470 OHM 1/2W	R 45	50
88144762018	R. 470 KOHM 1/2W	R 46	50
88700705154	TRIMMER 5 KOHM	R 14/15/16	150
88122272015	R. 2,2 MOHM 1/4W	R 30	50
8812334201A	R. 3,3KOHM 1/4W MELF	R 1	50
8812223201A	R. 220 OHM 1/4 MELF	R 2/21/33/23	50
8812154201A	R. 1,5 KOHM 1/4W MELF	R 4/5/7/11/12/13	50
8812124201A	R. 1,2 KOHM 1/4W MELF	R 6/8/10	50
8812474201A	R. 4,7 KOHM 1/4W MELF	R 17/18/19	50
8812000001A	R. 0 OHM MELF	J 1/2 R 20	50
8812126201A	R. 120 KOHM 1/4W MELF	R 40	50
8812017201A	R. 1 MOHM 1/4W MELF	R 41	50
8812185201A	R. 18 KOHM 1/4W MELF	R 42	50
8812563201A	R. 560 OHM 1/4W MELF	R 43/44	50
88700705153	TRIMMER 500 OHM	R 3/9	150
88224722825	C. EL. 47 MF 16 V.	C 1/2	50
88222218825	C. EL. 2,2 MF 250V.	C 9/13	110
88330165325	C. 100 NF 250V.	C 10	160
88460162825	C. 100 NF 50V.	C12	50

MODULO RGB+ZOCCOLO TRC 8789943803T
TUBE SOCKET MODULE

PART.NO.I.F.I.	DESCRIZIONE/DESCRIPTION		NETTO L.
8842012201A	C. 10 PF 50V. MELF	C 3	50
8842332201A	C. 33 PF 50V. MELF	C 4	50
8842222201A	C. 22 PF 50V. MELF	C 5	50
8842683201A	C. 680 PF 50V. MELF	C 6/7/8	50
88332248340	C. 2,2 NF 1KV.	C 11	50

AUDIO STEREO NICAM 8789944201S
SOUND MODULE ST. NICAM

PART.NO.I.F.I.	DESCRIZIONE/DESCRIPTION		NETTO L.
8789444201S	AUDIO STEREO NICAM SOUND MODULE ST. NICAM		60.200
88400200070	FILTRO TH317BPOS-3324 FILTER	F 1	2.600
88400200033	FILTRO SFT 6MA FILTER	F 3	670
88400200072	FILTRO CDSH 6.0ME FILTER	F 5	460
88400200059	FOS 32,9MDA50P	FOS 1	1.480
88700501105	BOBINA COIL	L 3	200
88701101026	QUARZO HC18 13.104MHZ CRYSTAL	QZ 1	1.170
88701101024	QUARZO HC18 17.472MHZ CRYSTAL	QZ 2	1.170
88701101020	QUARZO 10MHZ CRYSTAL	QZ 3	670
88710201086	DIODE BB809	D 2	160
88710201086	C.I. TDA8732	IC 1	3.570
88710301240	C.I. SAA7280	IC 2	4.650
88710301241	C.I. TDA1543	IC 3	3.520
88710301242	C.I. NE5532N	IC 4	6.070
88710301227	C.I. TDA3856	IC 5	3.880
88710301243	C.I. TDA8415	IC 6	5.760
88710301244	C.I. TDA8425	IC 7	4.280
88700503122	BOBINA COIL	L 1//2	150
88700503193	BOBINA COIL	L 6	110
88710102017	TR BF 959	TR 1/5	200
88710104029	TR BC 548B	TR 2/3/4/8/9	50

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email:- mauritron@dial.pipex.com

AUDIO STEREO NICAM 8789944201S
SOUND MODULE ST. NICAM

PART.NO.I.F.I.	DESCRIZIONE/DESCRIPTION		NETTO L.
88710201074	DIODE BB405B	D 1	150
88710201085	DIODE BAW62	D 3	50
8812152201A	R. 15 OHM 1/4W MELF	R 1	50
8812016201A	R. 100 KOHM 1/4W MELF	R 2/25/26	50
8812825201A	R. 82 KOHM 1/4W MELF	R 3	50
8812334201A	R. 3,3 KOHM 1/4W MELF	R 4/5	50
8812225201A	R. 22 KOHM 1/4W MELF	R 6/7/22	50
8812394201A	R. 3,9 KOHM 1/4W MELF	R 8/16/17	50
8812013201A	R. 100 OHM 1/4W MELF	R 9/20/32/37/38 77/78/81/82	50
8812012201A	R. 10 OHM 1/4W MELF	R 10/21/31/35 42/80	50
8812393201A	R. 390 OHM 1/4W MELF	R 11	50
8812224201A	R. 2,2 KOHM 1/4W MELF	R 12	50
8812223201A	R. 220 OHM 1/4W MELF	R 13	50
8812562201A	R. 56 OHM 1/4W MELF	R 14	50
8812014201A	R. 1 KOHM 1/4W MELF	R 15/28/55/68 88/91	50
8812184201A	R. 1,8 KOHM 1/4W MELF	R 18	50
8812473201A	R. 470 OHM 1/4W MELF	R 19	50
8812335201A	R. 33 KOHM 1/4W MELF	R 23	50
8812275201A	R. 27 KOHM 1/4W MELF	R 24	50
8812015201A	R. 10 KOHM 1/4W MELF	R 27/36/45/48 71	50
8812017201A	R. 1 MHOM 1/4W MELF	R 29	50
8812226201A	R. 220 KOHM 1/4W MELF	R 33	50
8812475201A	R. 47 KOHM 1/4W MELF	R 34/96	50
8812011201A	R. 1 OHM 1/4W MELF	R 41	50
8812823201A	R. 820 OHM 1/4W MELF	R 43/44	50
8812155201A	R. 15 KOHM 1/4W MELF	R 46/50	50
8812685201A	R. 68 KOHM 1/4W MELF	R 47/49	50

AUDIO STEREO NICAM 8789944201S
SOUND MODULE ST. NICAM

PART.NO.I.F.I.	DESCRIZIONE/DESCRIPTION		NETTO L.
8812564201A	R. 5,6 KOHM 1/4W MELF	R 53	50
8812183201A	R. 180 OHM 1/4W MELF	R 54	50
8812182201A	R. 18 OHM 1/4W MELF	R 56	50
8812472201A	R. 47 OHM 1/4W MELF	R 57	50
8812563201A	R. 560 OHM 1/4W MELF	R 62	50
8812753201A	R. 750 OHM 1/4W MELF	R 64	50
8812221201A	R. 2,2 OHM 1/4W MELF	R 70	50
8812125201A	R. 12 KOHM 1/4W MELF	R 74	50
8812684201A	R. 6,8 KOHM 1/4W MELF	R 75	50
8812474201A	R. 4,7 KOHM 1/4W MELF	R 76	50
8812000001A	R. 0 OHM MELF	R 84/85	50
8812683201A	R. 680 OHM 1/4W MELF	R 89/92	50
8812124201A	R. 1,2 KOHM 1/4W MELF	R 90/93/97	50
8812154201A	R. 1,5 KOHM 1/4W MELF	R 94/95	50
8812000001A	R. 0 OHM MELF	J 7/8/10/11/12 15/16/17/18/19 22/23	50
88900300500	R. 0 OHM	J 2/3/5/6	50
88700705155	TRIMMER 10 KOHM	R 79	150
8842682201A	C. 68 PF 50V. MELF	C 1	50
8842333201A	C. 330 PF 50V. MELF	C 2	50
8842013201A	C. 100 PF 50V. MELF	C 4/6/31/34/35	50
8842332201A	C. 33 PF 50V. MELF	C 5/7	50
8842225001A	C. 22 NF 16V. MELF	C 8/9/11/14/16 19/20/21/32/36 50/65/66/76/100	50
8842135201A	C. 150 PF 50V. MELF	C 10/12	50
8842015201A	C. 10 NF 50V. MELF	C 15/17/18/27 30	50
8842014201A	C. 1 NF 50V. MELF	C 23/24/40/44 51/52	50